

```

GET DATA
  /TYPE=XLS
  /FILE='C:\Users\vlada\Desktop\jelena rad #3\output poredjenje grupa JN.xls'
  /SHEET=name 'Vwf'
  /CELLRANGE=full
  /READNAMES=on
  /ASSUMEDSTRWIDTH=32767.

>Warning. Command name: GET DATA
>(2101) The column contained no recognized type; defaulting to "Numeric[8,2]"
>* Column 7

>Warning. Command name: GET DATA
>(2101) The column contained no recognized type; defaulting to "Numeric[8,2]"
>* Column 8

>Warning. Command name: GET DATA
>(2101) The column contained no recognized type; defaulting to "Numeric[8,2]"
>* Column 9

>Warning. Command name: GET DATA
>(2101) The column contained no recognized type; defaulting to "Numeric[8,2]"
>* Column 10

>Warning. Command name: GET DATA
>(2101) The column contained no recognized type; defaulting to "Numeric[8,2]"
>* Column 11

>Warning. Command name: GET DATA
>(2101) The column contained no recognized type; defaulting to "Numeric[8,2]"
>* Column 12

>Warning. Command name: GET DATA
>(2101) The column contained no recognized type; defaulting to "Numeric[8,2]"
>* Column 13
EXECUTE.
DATASET NAME DataSet1 WINDOW=FRONT.
EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr
  /PLOT BOXPLOT STEMLEAF NPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.

```

Explore

Notes

Output Created		11-Apr-2016 22:40:25
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	21
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /INTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00 00:00:05.648
	Elapsed Time	00 00:00:04.979

[DataSet1]

gr

Case Processing Summary

gr		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
ned1	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned2	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned4	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned8	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%

Descriptives

gr				Statistic	Std. Error
ned1	1	Mean		-3.3221	.41755
		95% Confidence Interval for Mean	Lower Bound	-4.3954	
			Upper Bound	-2.2487	
		5% Trimmed Mean		-3.3173	
		Median		-3.3213	
		Variance		1.046	
		Std. Deviation		1.02279	
		Minimum		-4.65	
		Maximum		-2.08	
		Range		2.57	
		Interquartile Range		2.11	
		Skewness		-.051	.845
		Kurtosis		-1.545	1.741
	2	Mean		-3.6600	.15312
		95% Confidence Interval for Mean	Lower Bound	-4.0536	
			Upper Bound	-3.2664	
		5% Trimmed Mean		-3.6556	
		Median		-3.6600	
		Variance		.141	
		Std. Deviation		.37507	
		Minimum		-4.16	
		Maximum		-3.24	
		Range		.92	
		Interquartile Range		.79	
		Skewness		-.102	.845
		Kurtosis		-1.520	1.741

Descriptives

gr			Statistic	Std. Error
ned1	3	Mean	-2.2367	.14755
		95% Confidence Interval for Mean	Lower Bound Upper Bound	-2.6160 -1.8574
		5% Trimmed Mean	-2.2374	
		Median	-2.2400	
		Variance	.131	
		Std. Deviation	.36142	
		Minimum	-2.80	
		Maximum	-1.66	
		Range	1.14	
		Interquartile Range	.34	
		Skewness	.082	.845
		Kurtosis	2.418	1.741
ned2	1	Mean	-3.1760	.12829
		95% Confidence Interval for Mean	Lower Bound Upper Bound	-3.5058 -2.8462
		5% Trimmed Mean	-3.1717	
		Median	-3.1980	
		Variance	.099	
		Std. Deviation	.31424	
		Minimum	-3.64	
		Maximum	-2.79	
		Range	.85	
		Interquartile Range	.58	
		Skewness	-.194	.845
		Kurtosis	-.616	1.741

Descriptives

gr				Statistic	Std. Error
ned2	2	Mean		-1.9183	.05665
		95% Confidence Interval for Mean	Lower Bound	-2.0640	
			Upper Bound	-1.7727	
		5% Trimmed Mean		-1.9198	
		Median		-1.9200	
		Variance		.019	
		Std. Deviation		.13877	
		Minimum		-2.12	
		Maximum		-1.69	
		Range		.43	
		Interquartile Range		.17	
		Skewness		.403	
		Kurtosis		2.018	1.741
	3	Mean		-2.9779	.16185
		95% Confidence Interval for Mean	Lower Bound	-3.3940	
			Upper Bound	-2.5619	
		5% Trimmed Mean		-2.9738	
		Median		-2.9787	
		Variance		.157	
		Std. Deviation		.39645	
		Minimum		-3.61	
		Maximum		-2.42	
		Range		1.19	
		Interquartile Range		.58	
		Skewness		-.340	
		Kurtosis		1.110	1.741

Descriptives

gr				Statistic	Std. Error
ned4	1	Mean		-2.3483	.21007
		95% Confidence Interval for Mean	Lower Bound	-2.8883	
			Upper Bound	-1.8083	
		5% Trimmed Mean		-2.3231	
		Median		-2.2900	
		Variance		.265	
		Std. Deviation		.51456	
		Minimum		-3.31	
		Maximum		-1.84	
		Range		1.47	
		Interquartile Range		.65	
		Skewness		-1.565	
		Kurtosis		3.122	
					.845
					1.741
	2	Mean		-2.1421	.10728
		95% Confidence Interval for Mean	Lower Bound	-2.4179	
			Upper Bound	-1.8663	
		5% Trimmed Mean		-2.1251	
		Median		-2.0700	
		Variance		.069	
		Std. Deviation		.26279	
		Minimum		-2.65	
		Maximum		-1.94	
		Range		.71	
		Interquartile Range		.30	
		Skewness		-1.912	
		Kurtosis		3.925	
					.845
					1.741

Descriptives

gr				Statistic	Std. Error
ned4	3	Mean		-1.8383	.10035
		95% Confidence Interval for Mean	Lower Bound	-2.0963	
			Upper Bound	-1.5804	
		5% Trimmed Mean		-1.8448	
		Median		-1.8650	
		Variance		.060	
		Std. Deviation		.24580	
		Minimum		-2.16	
		Maximum		-1.40	
		Range		.76	
		Interquartile Range		.23	
		Skewness		1.021	
		Kurtosis		2.887	
					.845
					1.741
ned8	1	Mean		-1.7340	.15639
		95% Confidence Interval for Mean	Lower Bound	-2.1360	
			Upper Bound	-1.3320	
		5% Trimmed Mean		-1.7239	
		Median		-1.7520	
		Variance		.147	
		Std. Deviation		.38307	
		Minimum		-2.38	
		Maximum		-1.27	
		Range		1.11	
		Interquartile Range		.57	
		Skewness		-.759	
		Kurtosis		1.197	
					.845
					1.741

Descriptives

gr				Statistic	Std. Error
ned8	2	Mean		-1.8580	.09488
		95% Confidence Interval for Mean	Lower Bound	-1.1019	
			Upper Bound	-.6141	
		5% Trimmed Mean		-.8500	
		Median		-.8440	
		Variance		.054	
		Std. Deviation		.23241	
		Minimum		-1.28	
		Maximum		-.58	
		Range		.70	
		Interquartile Range		.27	
		Skewness		-1.243	
		Kurtosis		2.838	1.741
	3	Mean		-2.7620	.14410
		95% Confidence Interval for Mean	Lower Bound	-3.1324	
			Upper Bound	-2.3916	
		5% Trimmed Mean		-2.7643	
		Median		-2.8250	
		Variance		.125	
		Std. Deviation		.35296	
		Minimum		-3.21	
		Maximum		-2.27	
		Range		.94	
		Interquartile Range		.67	
		Skewness		.328	
		Kurtosis		-1.111	1.741

Tests of Normality

gr	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ned1 1	.175	6	.200 *	.928	6	.563
2	.196	6	.200 *	.908	6	.425
3	.293	6	.117 *	.874	6	.242
ned2 1	.168	6	.200 *	.959	6	.809
2	.252	6	.200 *	.928	6	.566
3	.184	6	.200 *	.968	6	.876
ned4 1	.317	6	.061 *	.850	6	.157
2	.333	6	.037 *	.767	6	.029
3	.336	6	.033 *	.861	6	.192
ned8 1	.245	6	.200 *	.931	6	.585
2	.330	6	.040 *	.875	6	.249
3	.198	6	.200 *	.957	6	.796

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

ned1

Stem-and-Leaf Plots

ned1 Stem-and-Leaf Plot for
gr= 1

```

Frequency      Stem & Leaf

      2.00      -4 .  26
      2.00      -3 .  33
      2.00      -2 .  03

```

```

Stem width:      1.00
Each leaf:      1 case(s)

```

ned1 Stem-and-Leaf Plot for
gr= 2

```

Frequency      Stem & Leaf

      1.00      -4 .  1

```

3.00	-3 . 669
2.00	-3 . 22

Stem width: 1.00
Each leaf: 1 case(s)

ned1 Stem-and-Leaf Plot for
gr= 3

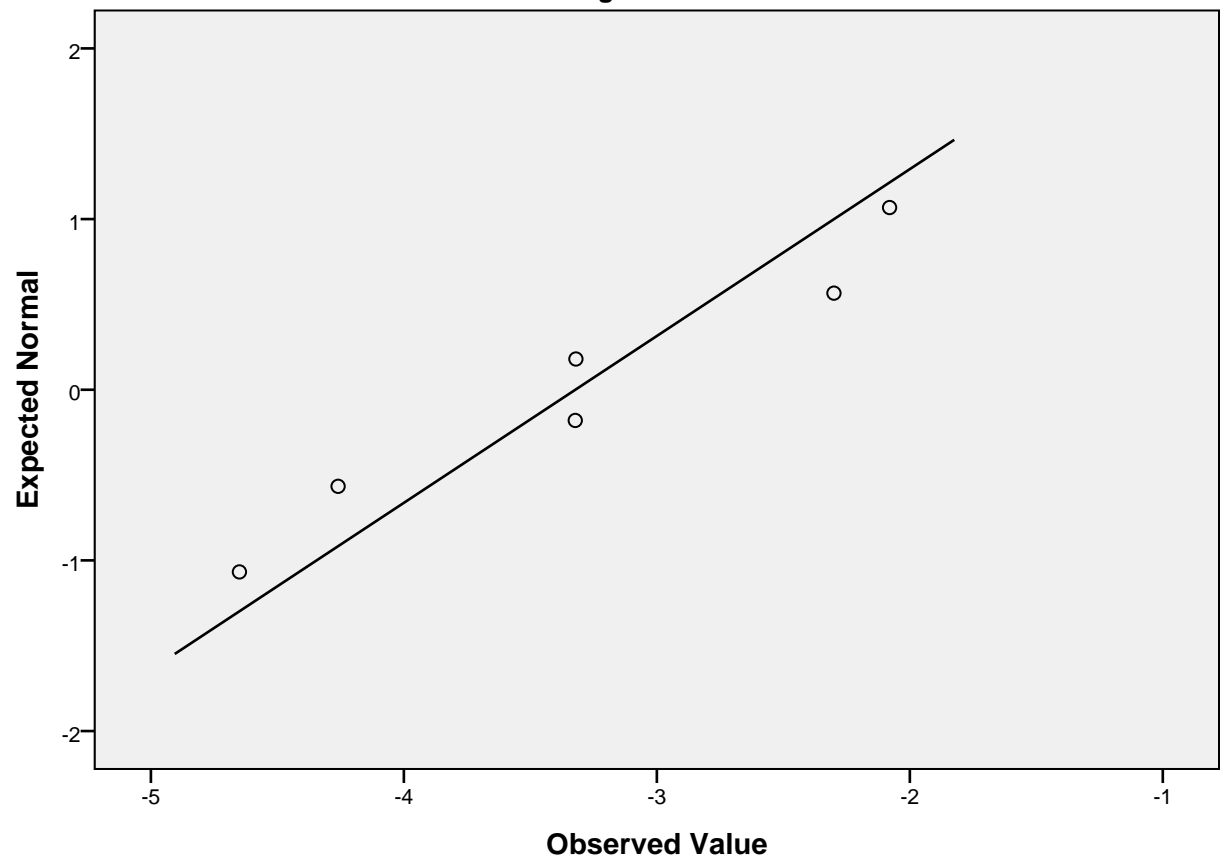
Frequency	Stem &	Leaf
1.00	Extremes	(= -2.80)
1.00	-22 .	8
3.00	-22 .	044
1.00	Extremes	(≥ -1.66)

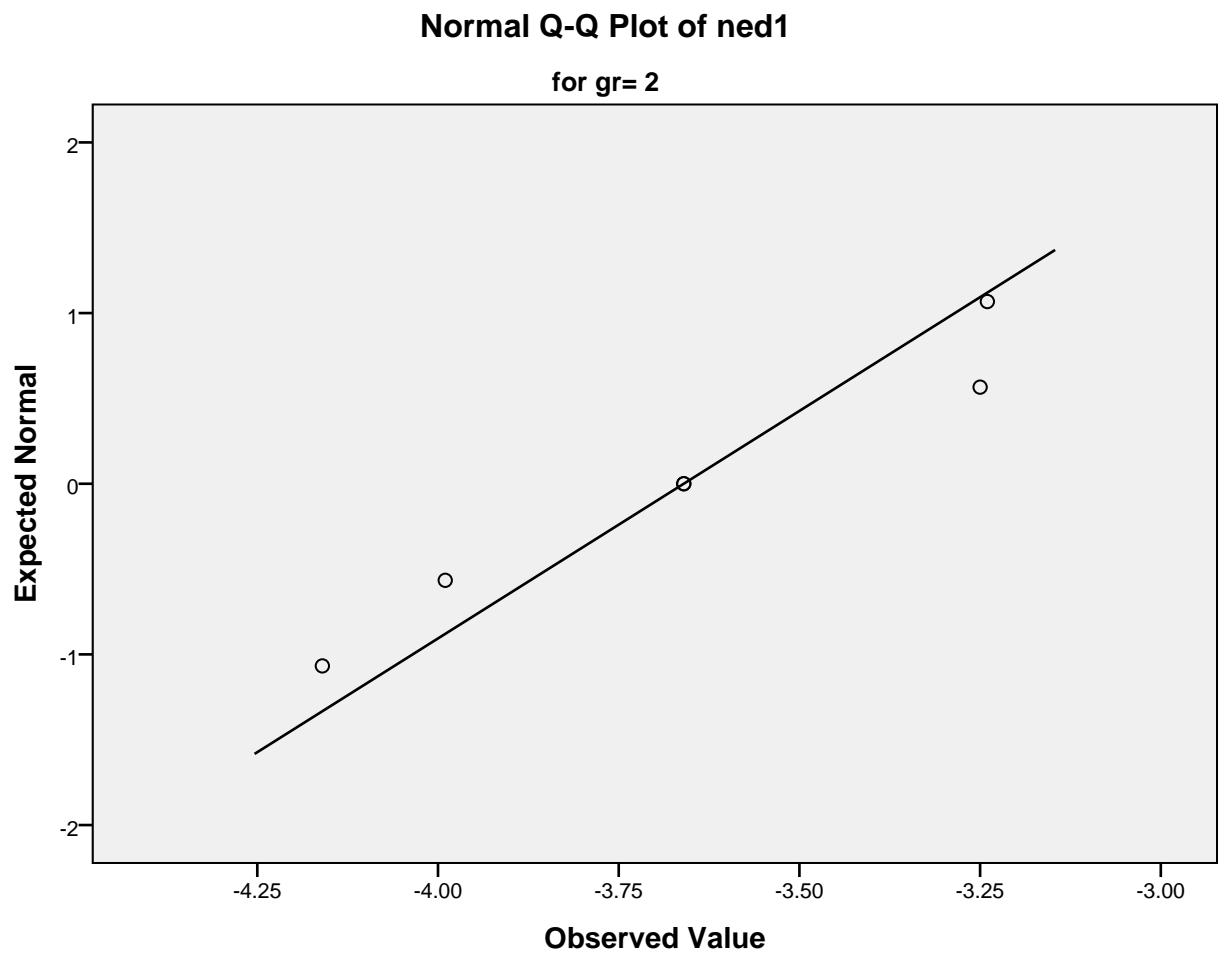
Stem width: .10
Each leaf: 1 case(s)

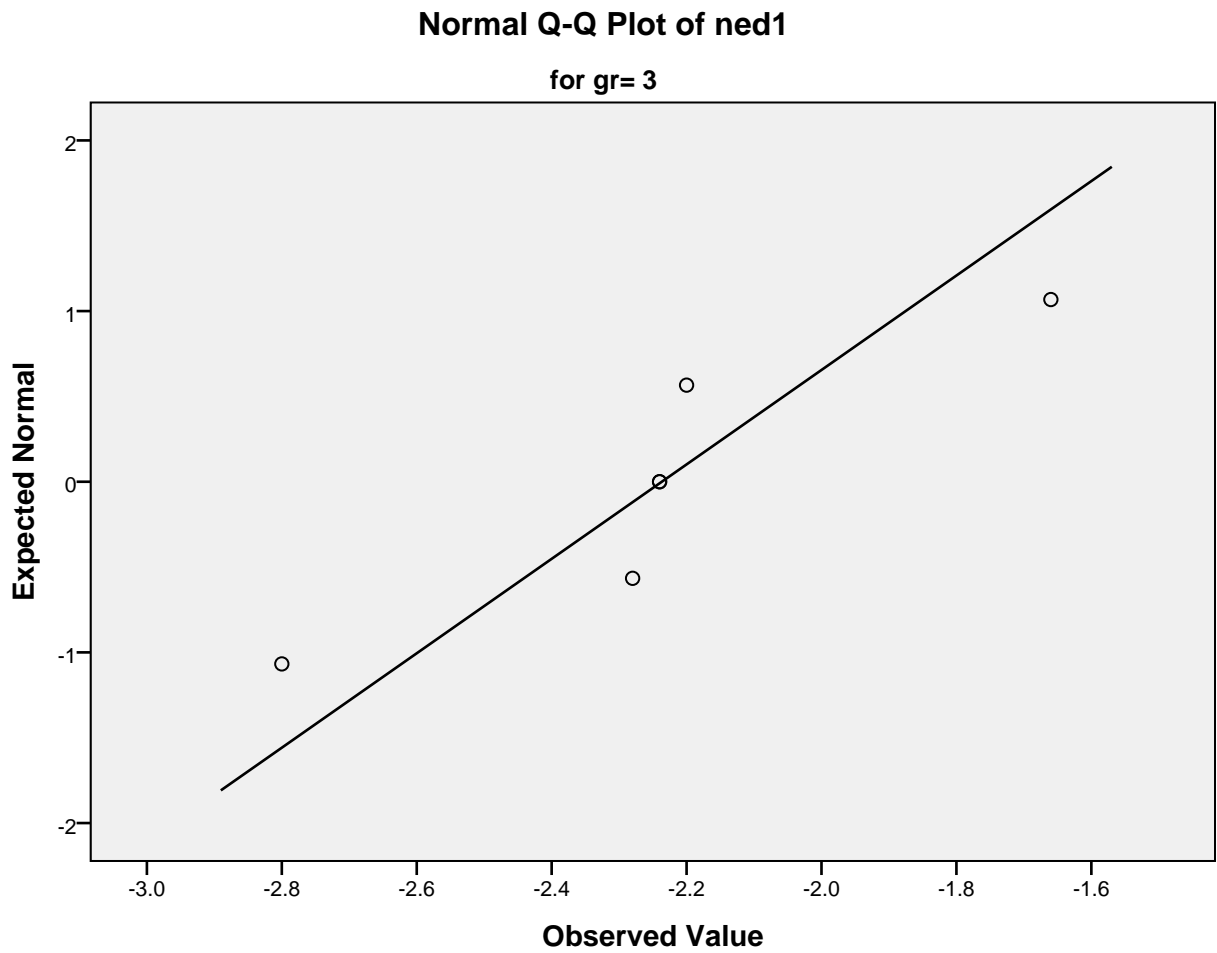
Normal Q-Q Plots

Normal Q-Q Plot of ned1

for gr= 1



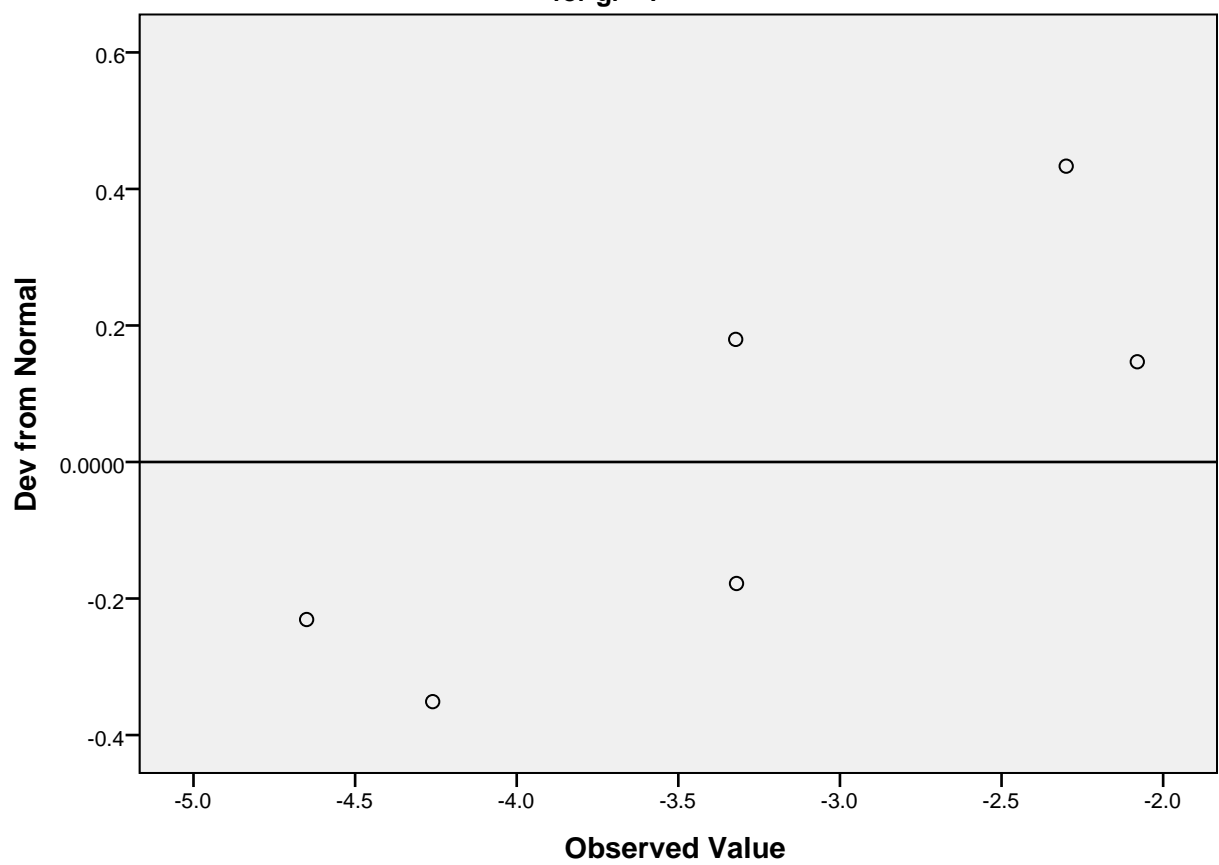




Detrended Normal Q-Q Plots

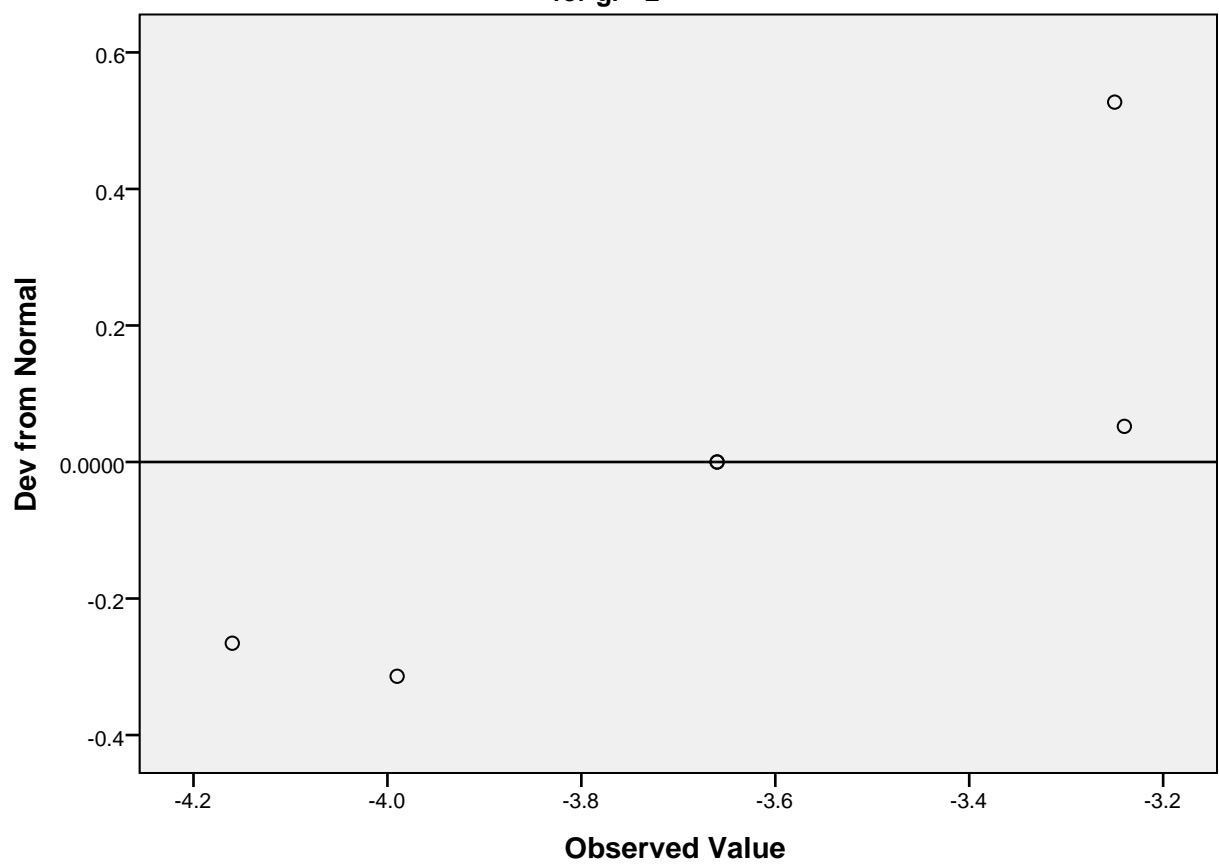
Detrended Normal Q-Q Plot of ned1

for gr= 1



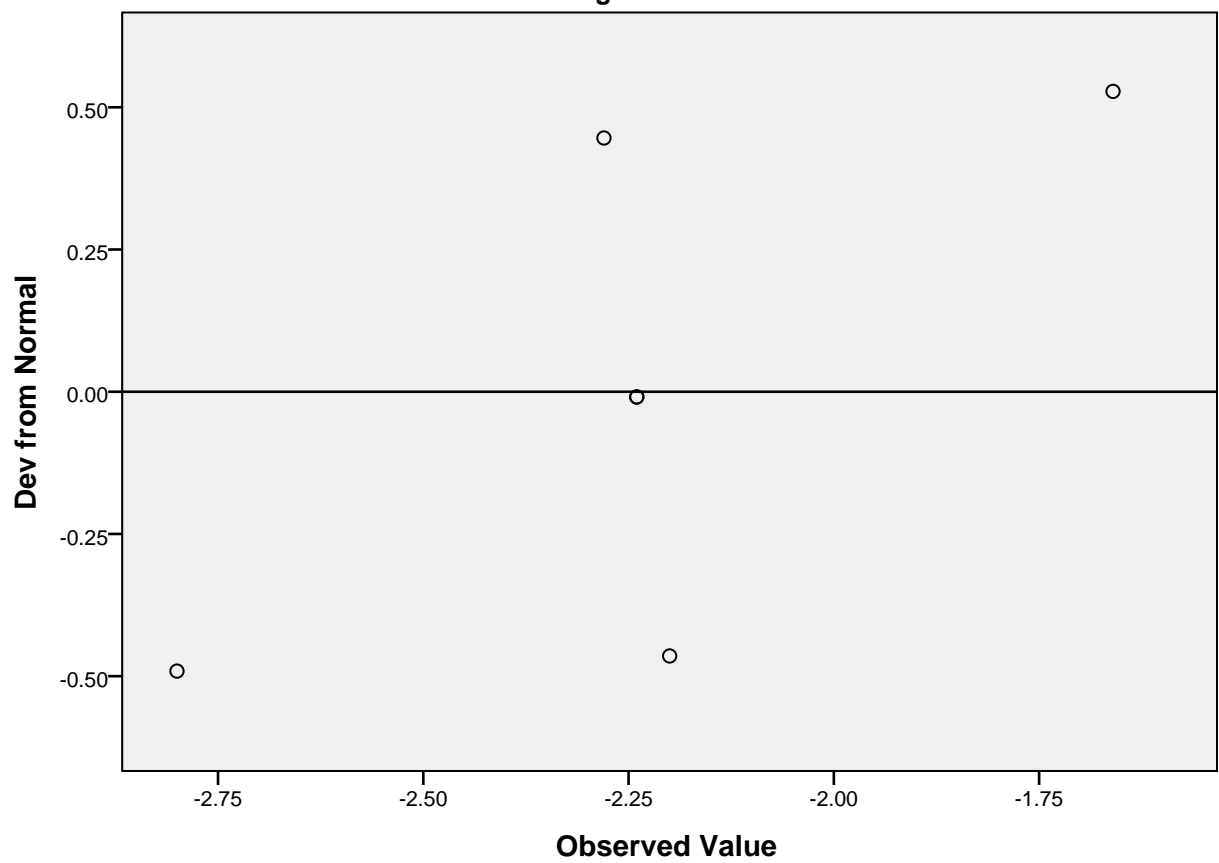
Detrended Normal Q-Q Plot of ned1

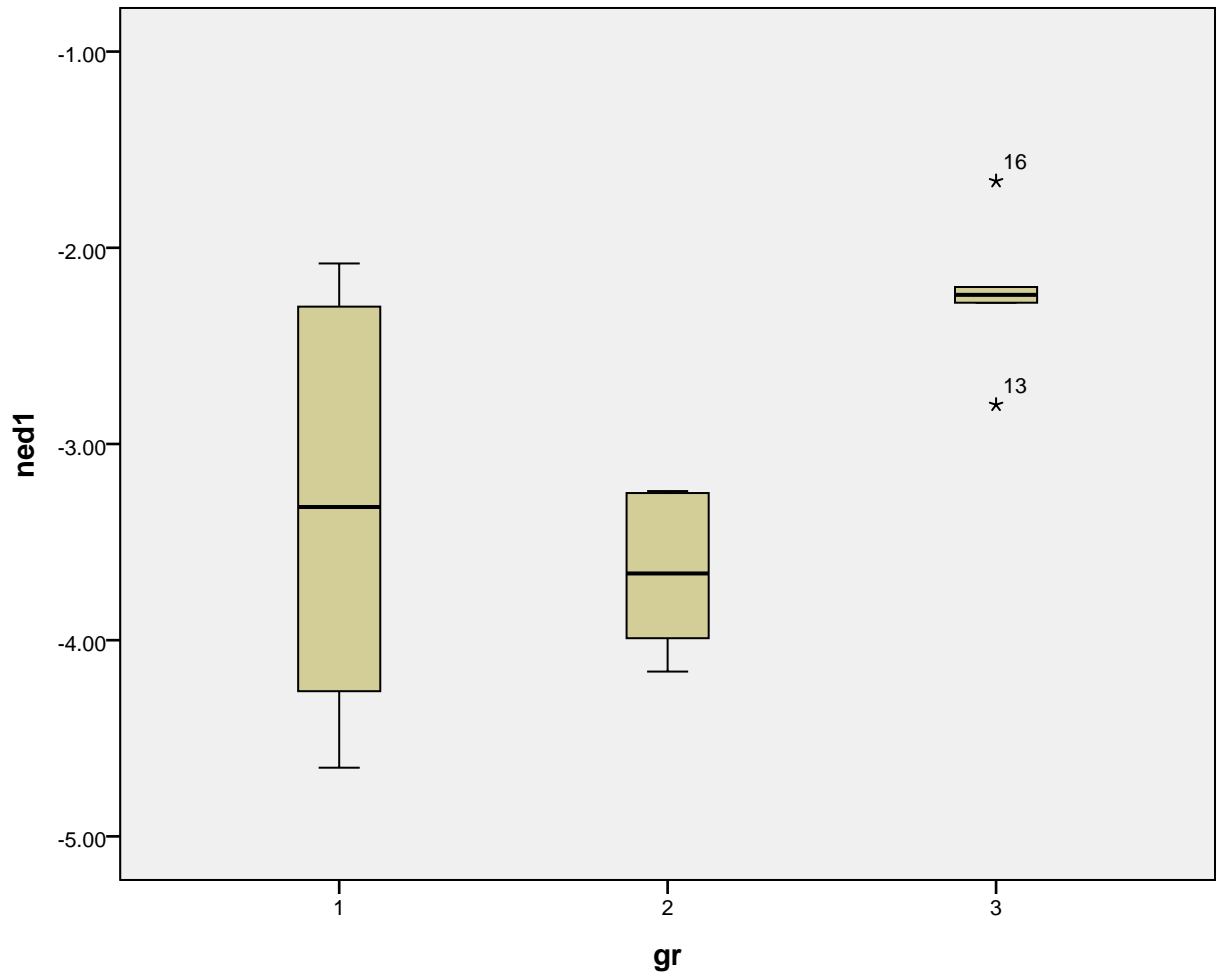
for gr= 2



Detrended Normal Q-Q Plot of ned1

for gr= 3





ned2

Stem-and-Leaf Plots

ned2 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
1.00	-3 .	6
3.00	-3 .	123
2.00	-2 .	78

Stem width: 1.00
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	Extremes	(= -2.12)
1.00	-19 .	7
2.00	-19 .	22
1.00	-18 .	9
1.00	Extremes	(≥ -1.69)

Stem width: .10
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 3

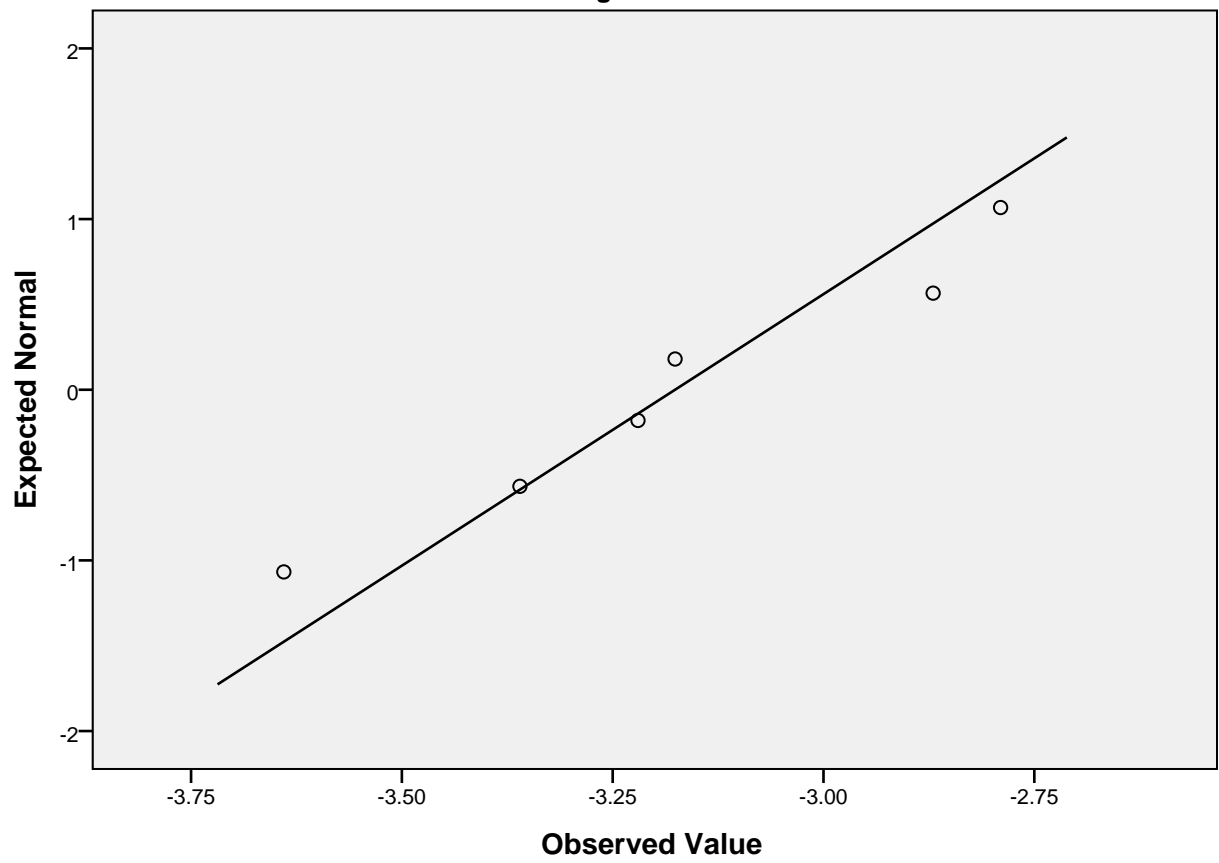
Frequency	Stem &	Leaf
1.00	-3 .	6
1.00	-3 .	1
3.00	-2 .	799
1.00	-2 .	4

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

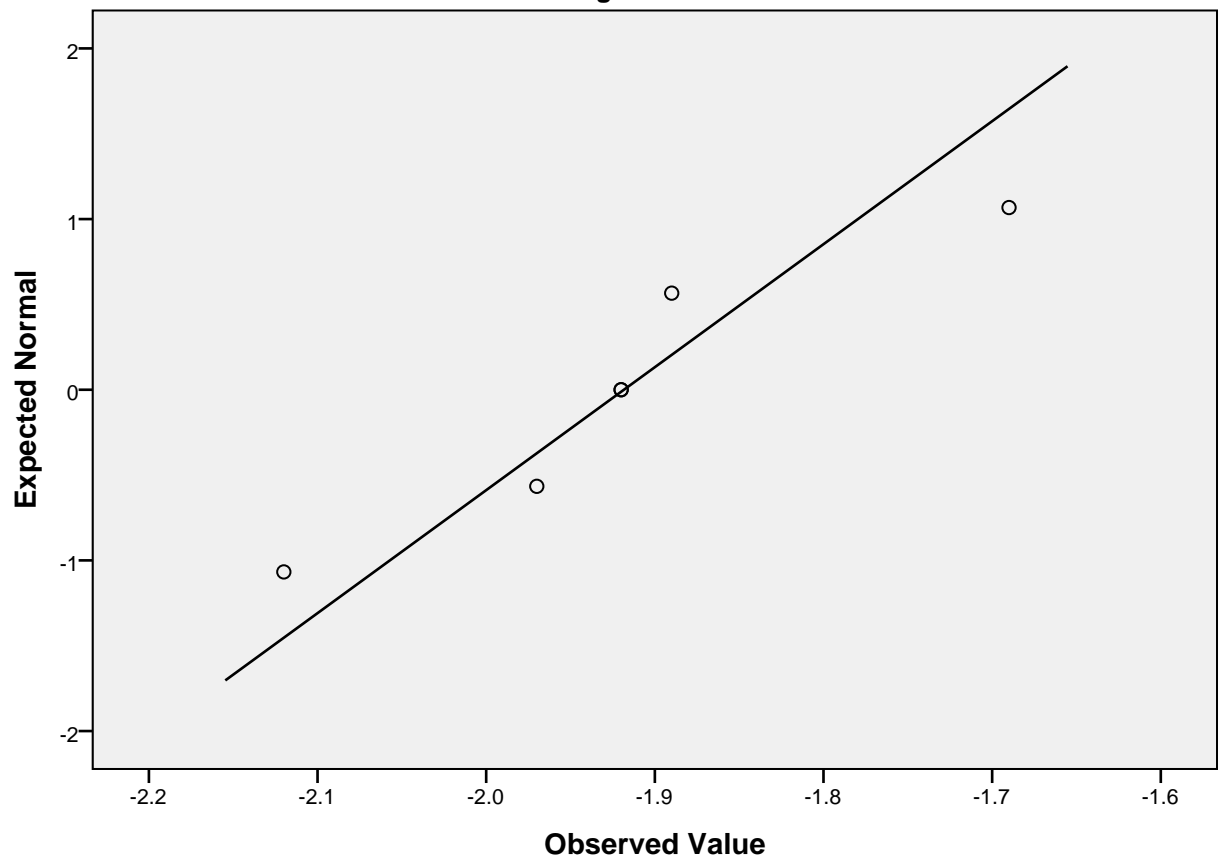
Normal Q-Q Plot of ned2

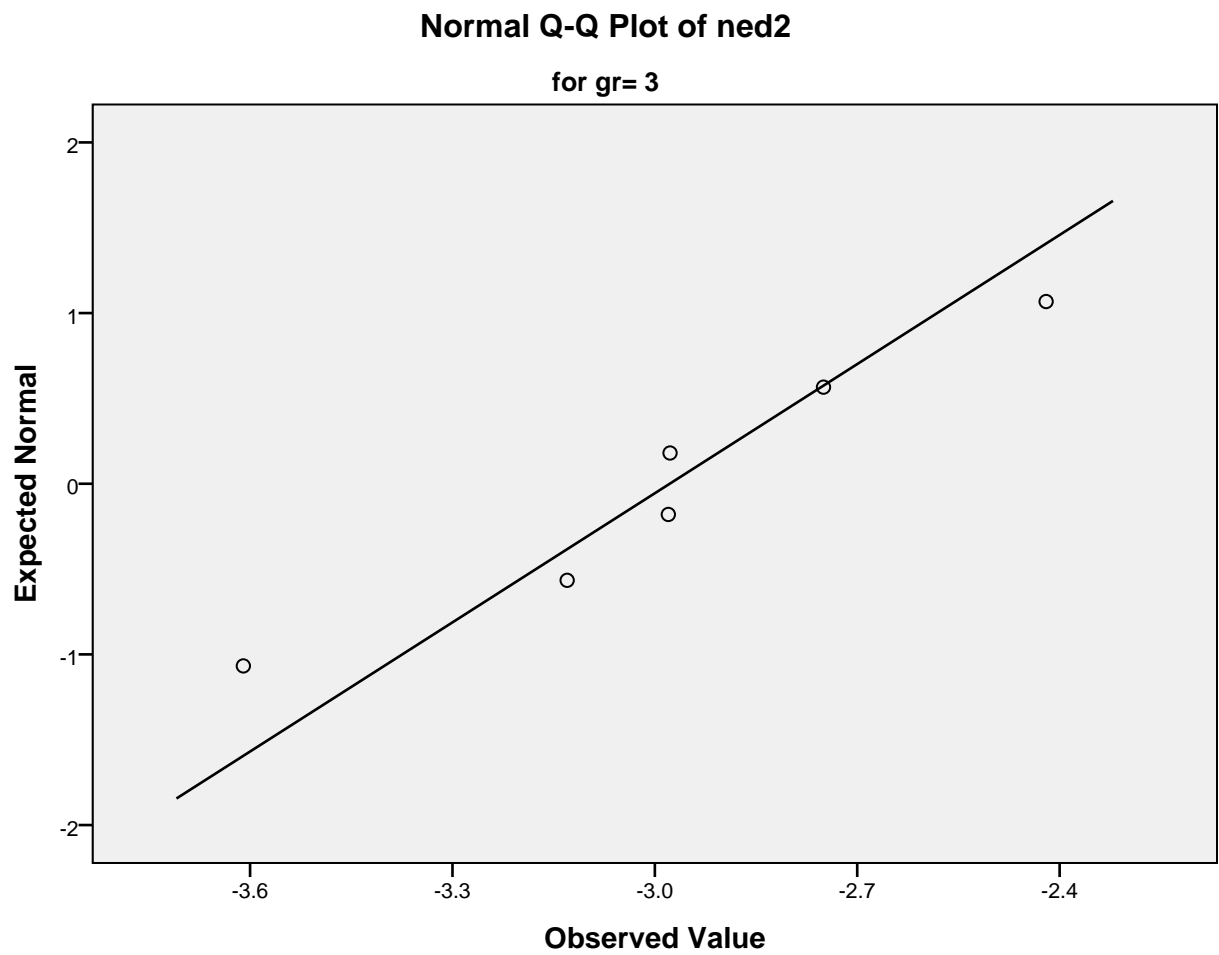
for gr= 1



Normal Q-Q Plot of ned2

for gr= 2

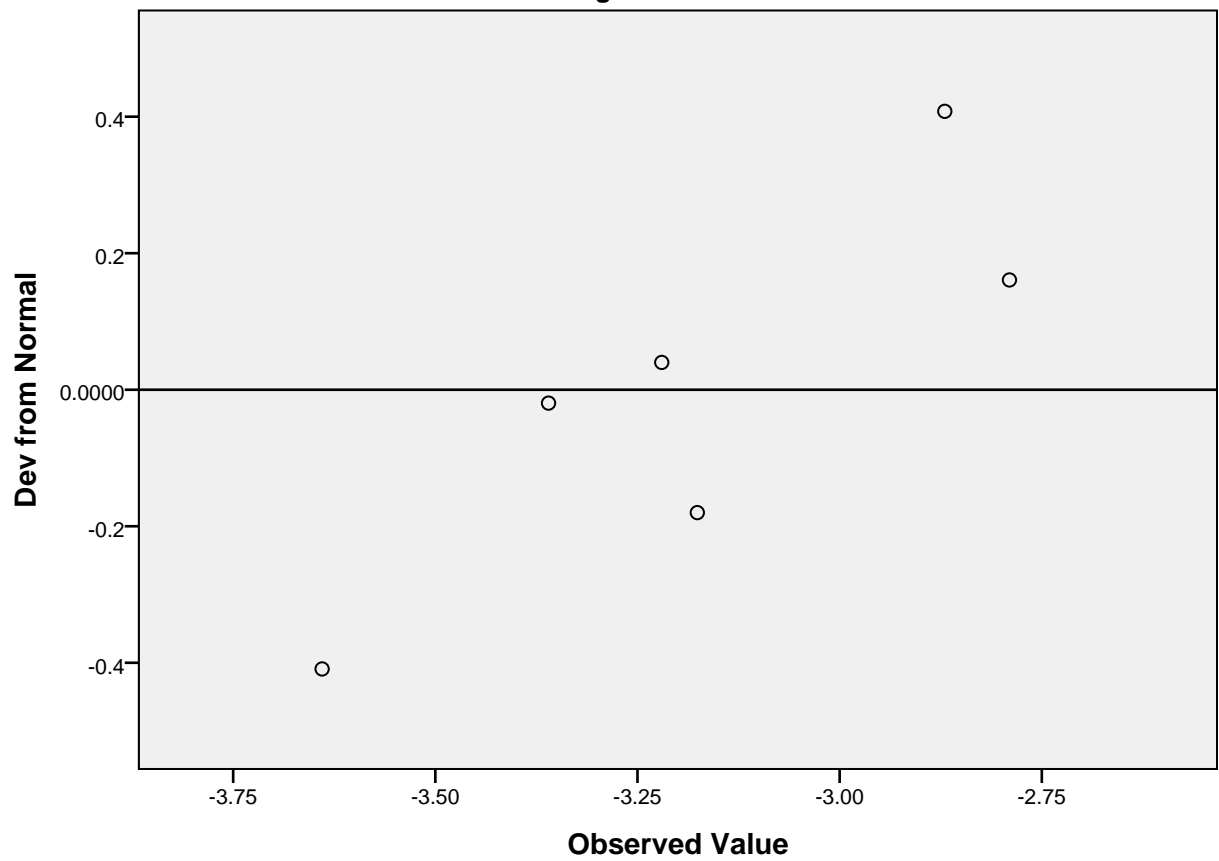




Detrended Normal Q-Q Plots

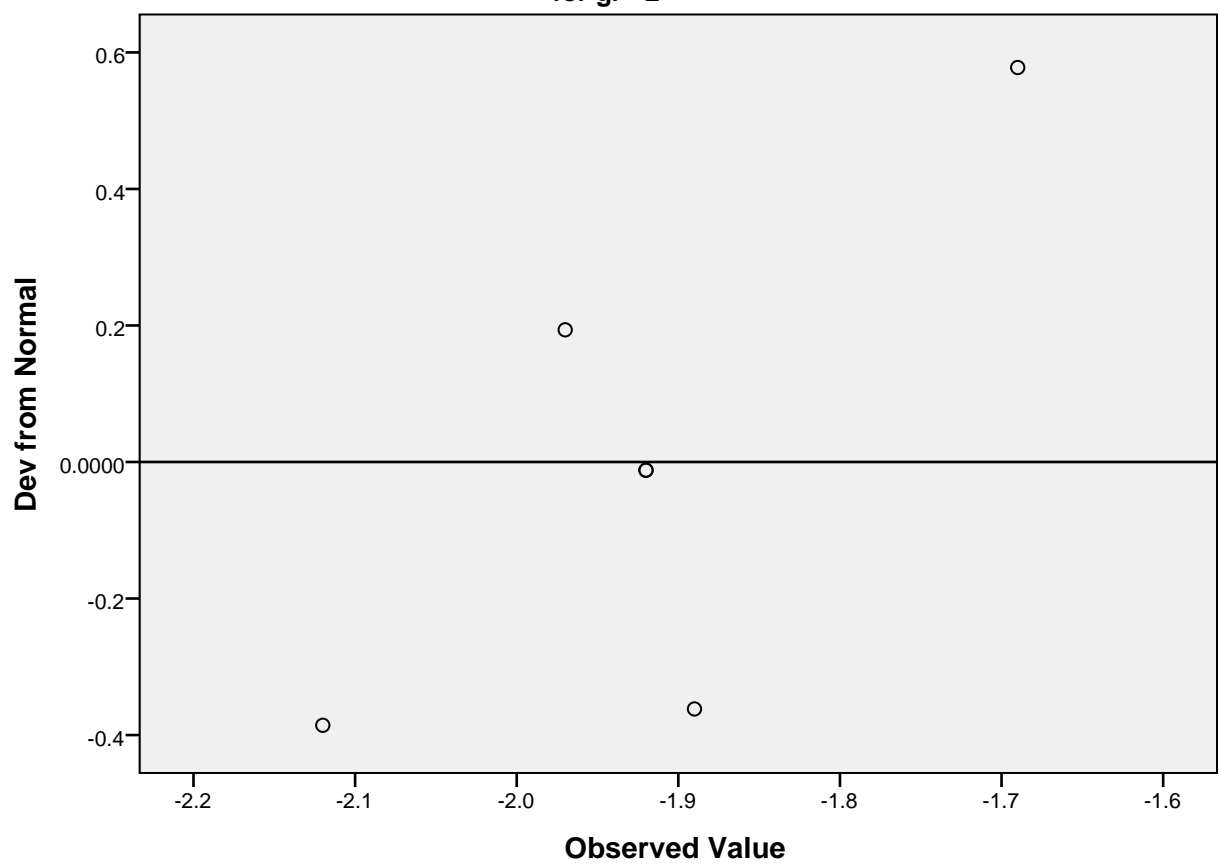
Detrended Normal Q-Q Plot of ned2

for gr= 1



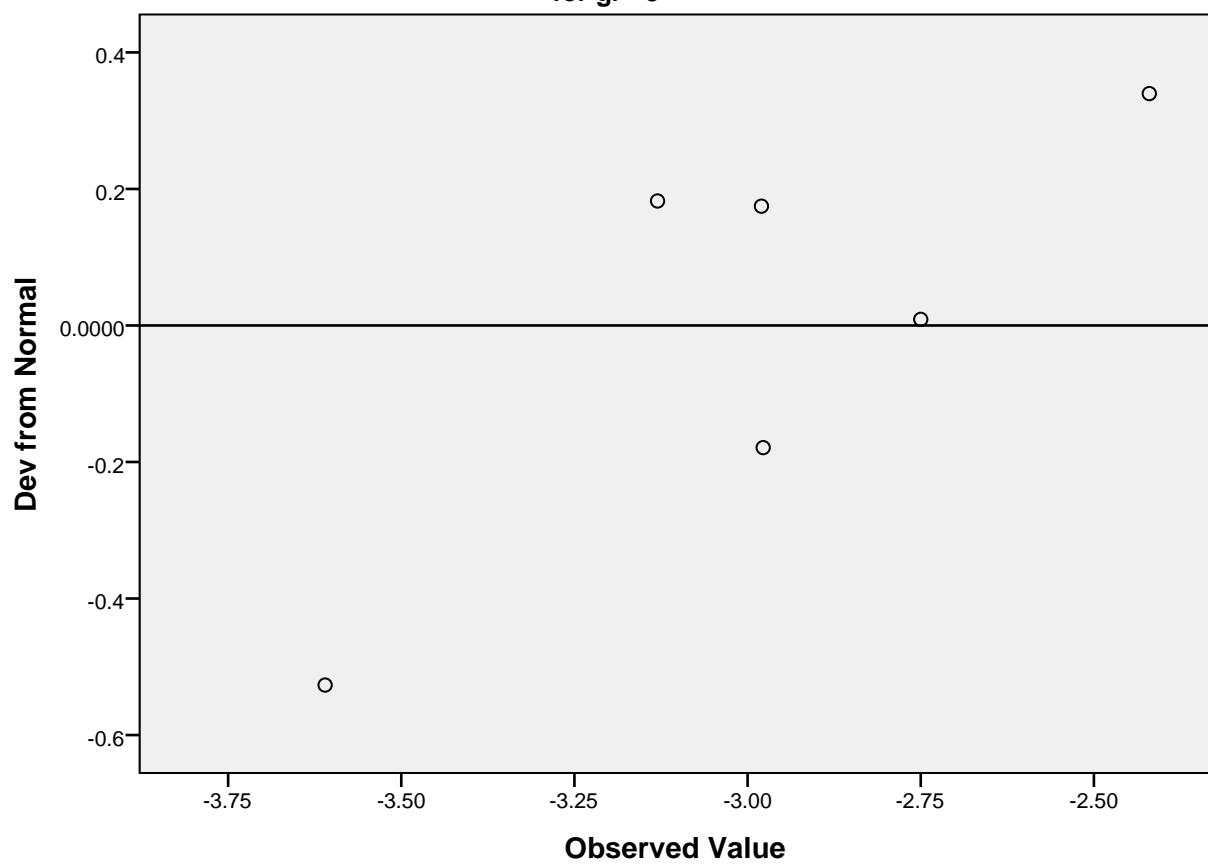
Detrended Normal Q-Q Plot of ned2

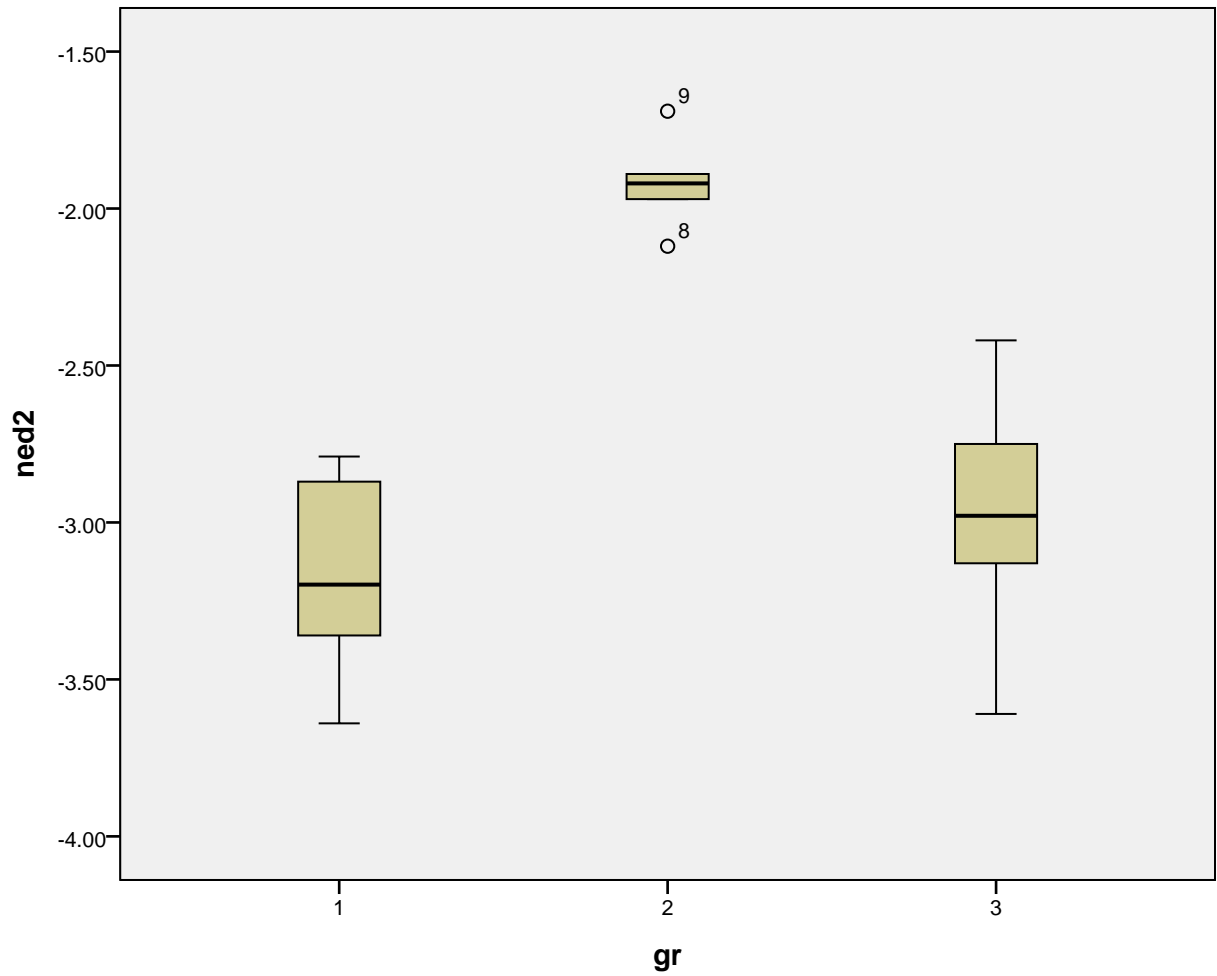
for gr= 2



Detrended Normal Q-Q Plot of ned2

for gr= 3





ned4

Stem-and-Leaf Plots

ned4 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
1.00	Extremes	(= \leq -3.3)
3.00	-2 .	233
2.00	-1 .	89

Stem width: 1.00
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	Extremes	(= -2.65)
2.00	-21	. 44
1.00	-20	. 0
2.00	-19	. 48

Stem width: .10
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 3

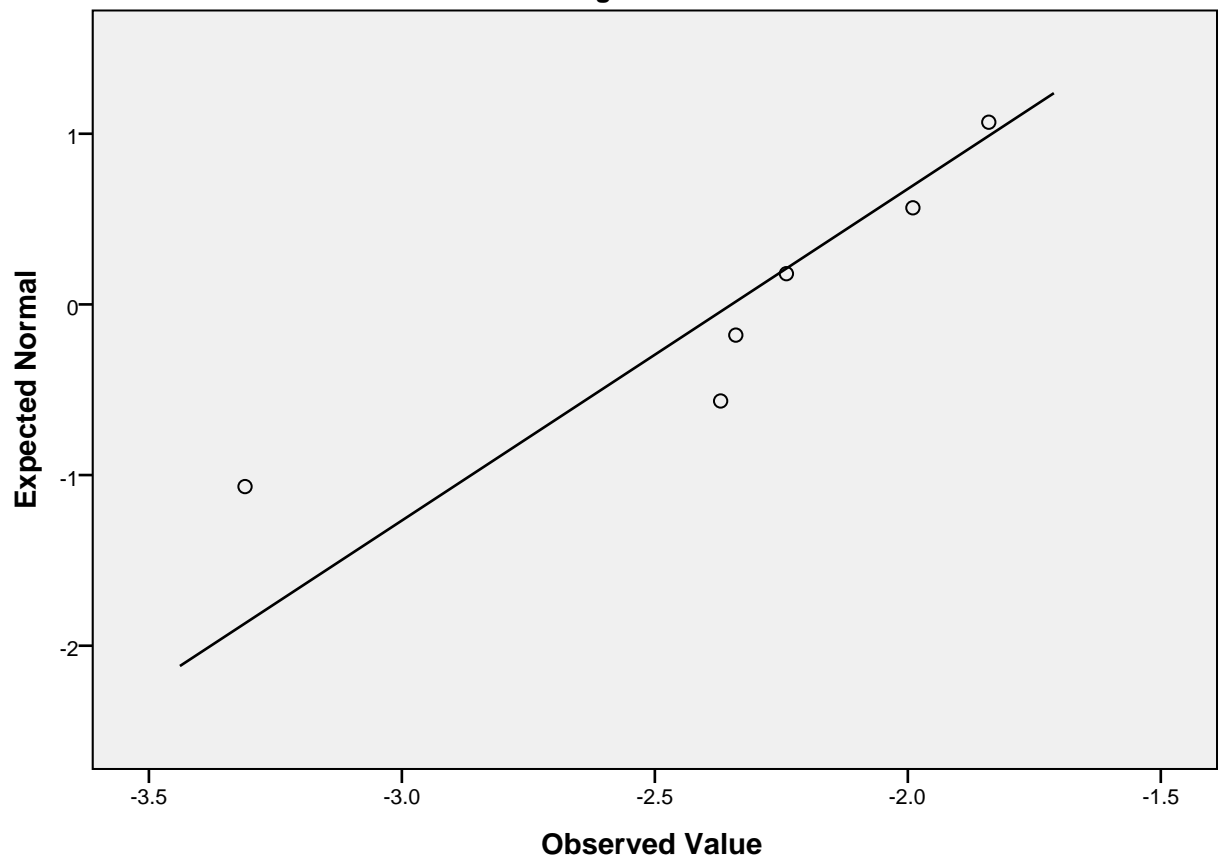
Frequency	Stem &	Leaf
1.00	Extremes	(= -2.16)
.00	-19	.
1.00	-18	. 9
2.00	-18	. 44
1.00	Extremes	(≥ -1.40)

Stem width: .10
Each leaf: 1 case(s)

Normal Q-Q Plots

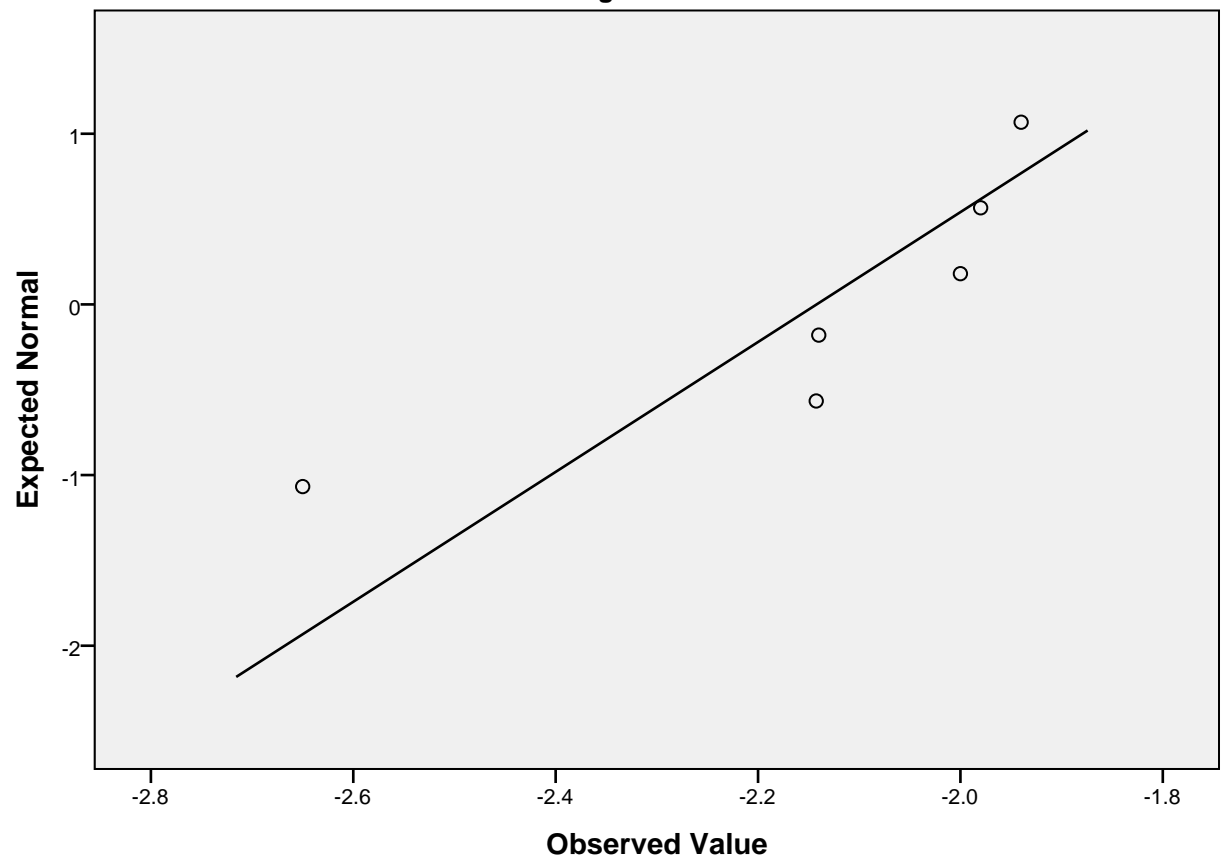
Normal Q-Q Plot of ned4

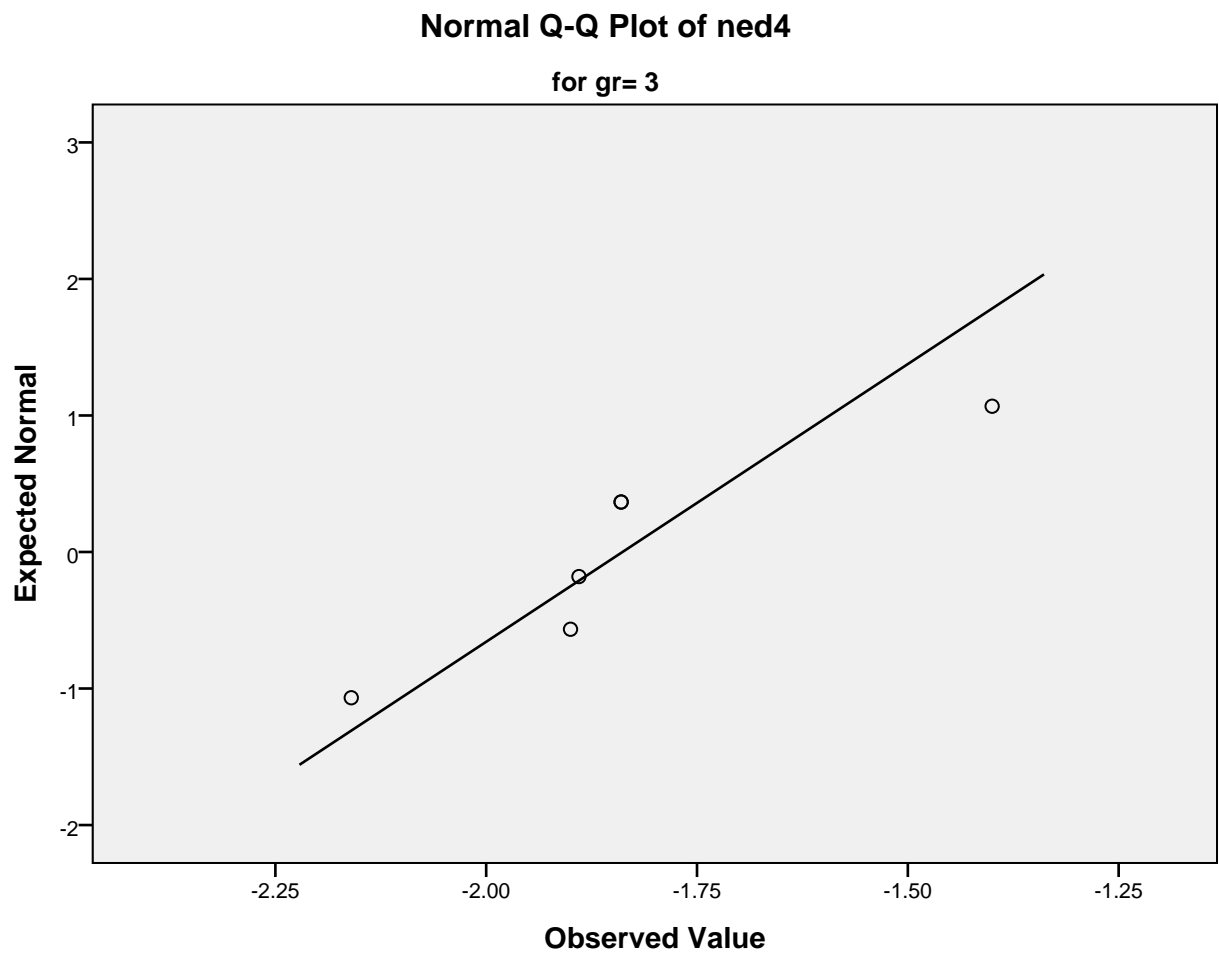
for gr= 1



Normal Q-Q Plot of ned4

for gr= 2

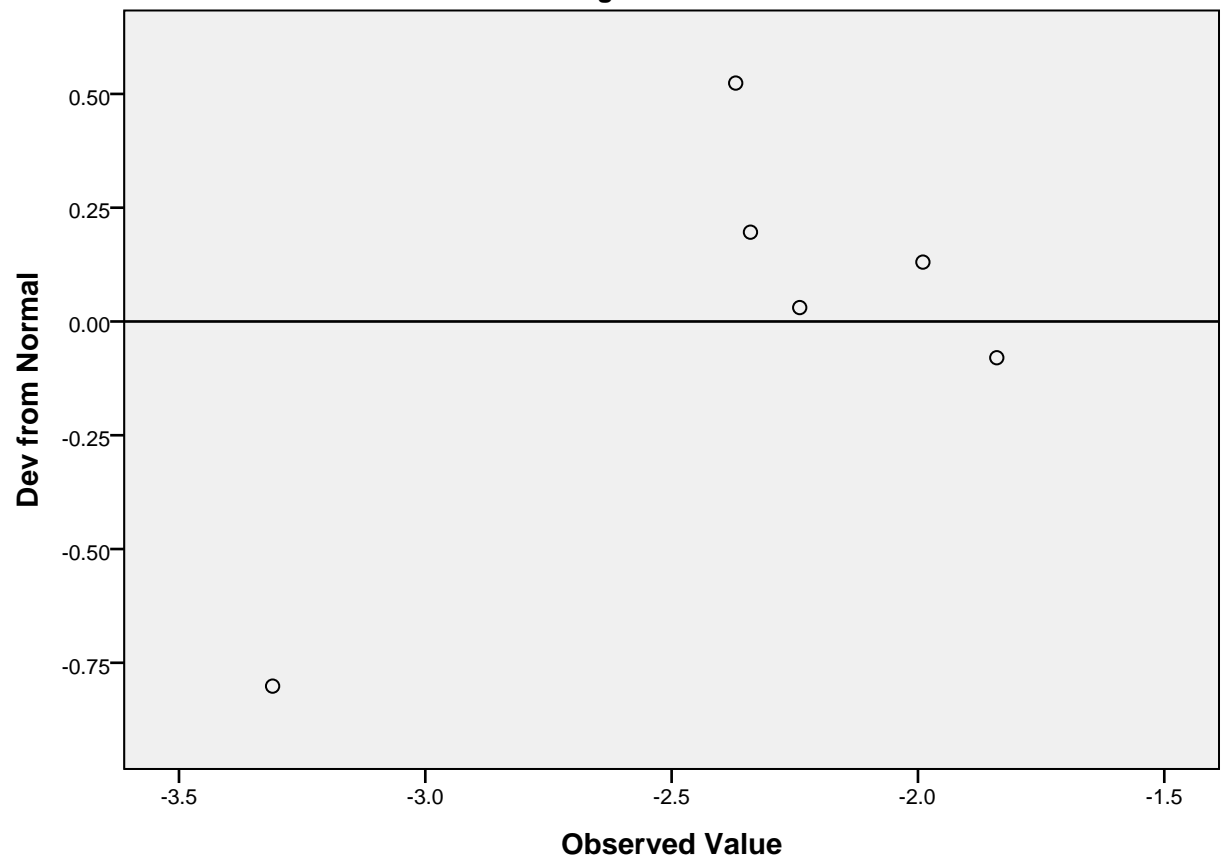




Detrended Normal Q-Q Plots

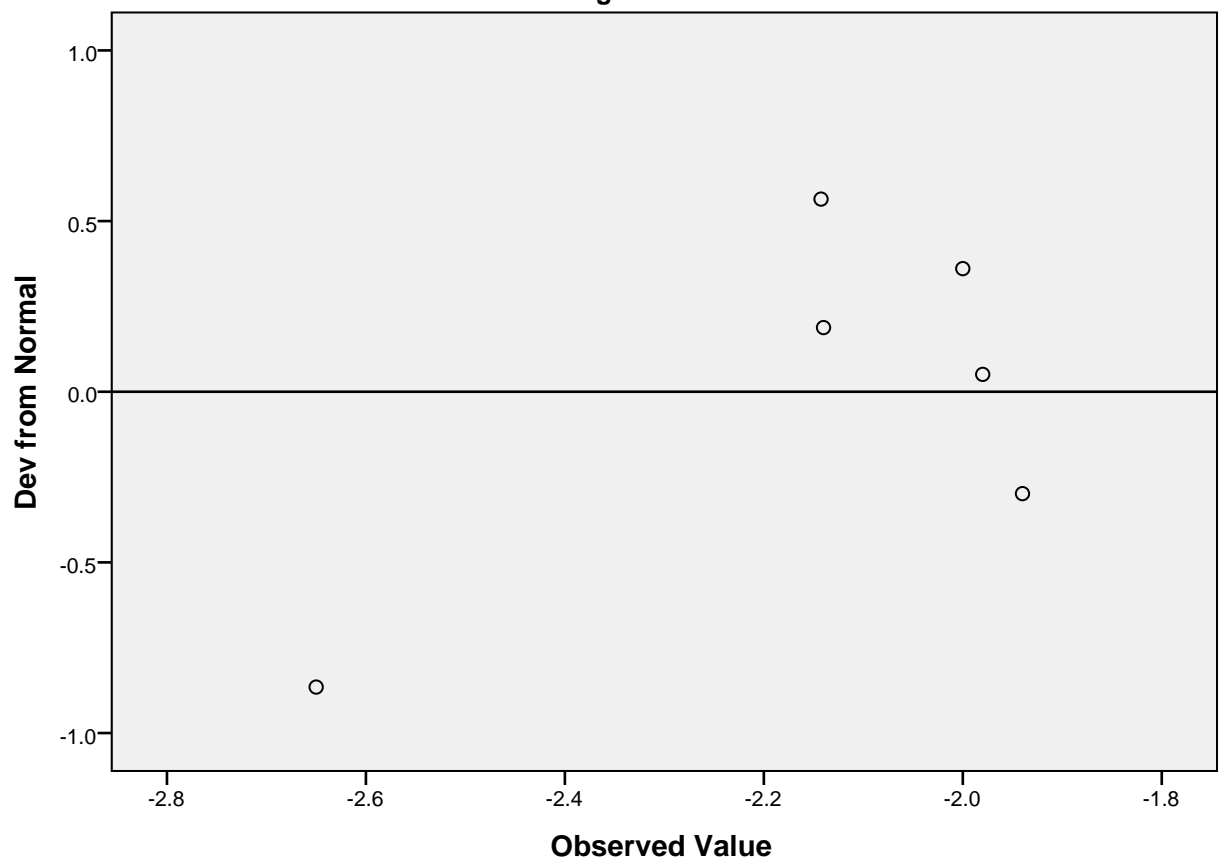
Detrended Normal Q-Q Plot of ned4

for gr= 1



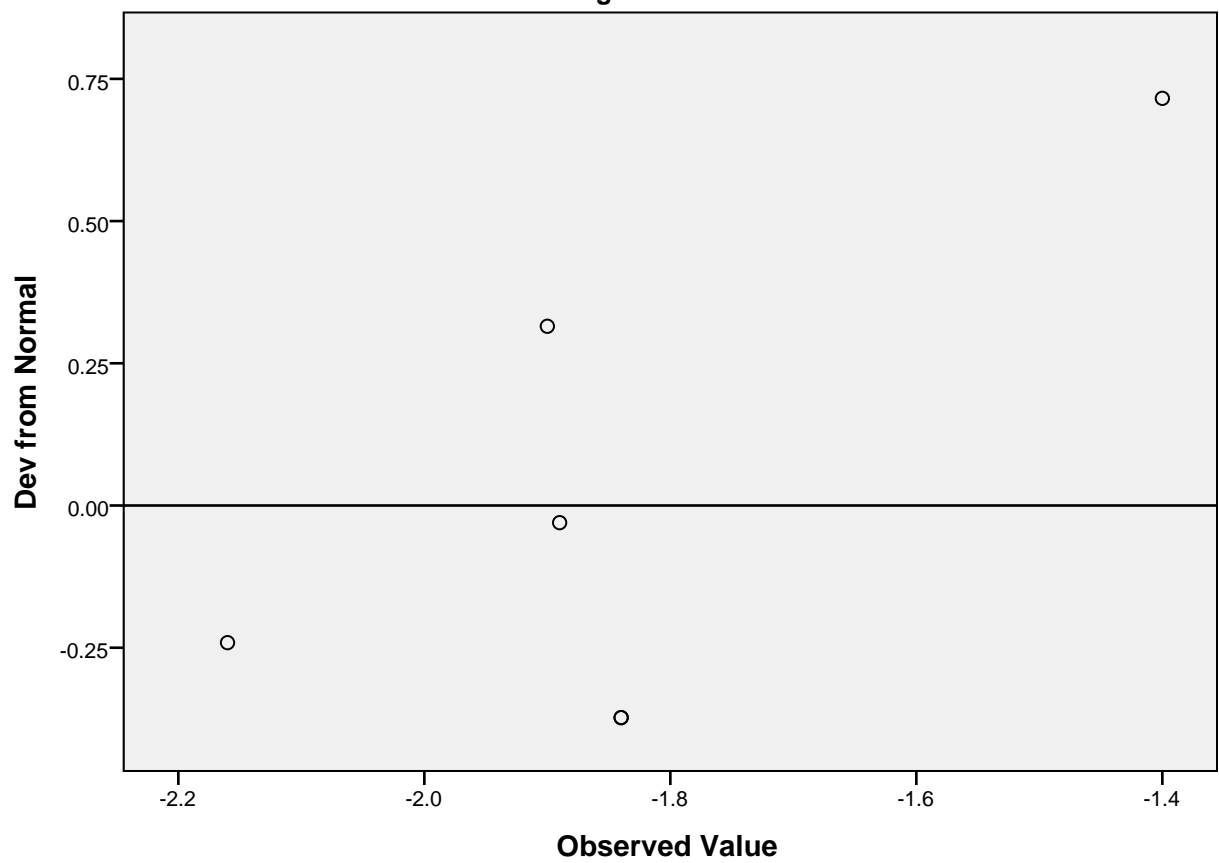
Detrended Normal Q-Q Plot of ned4

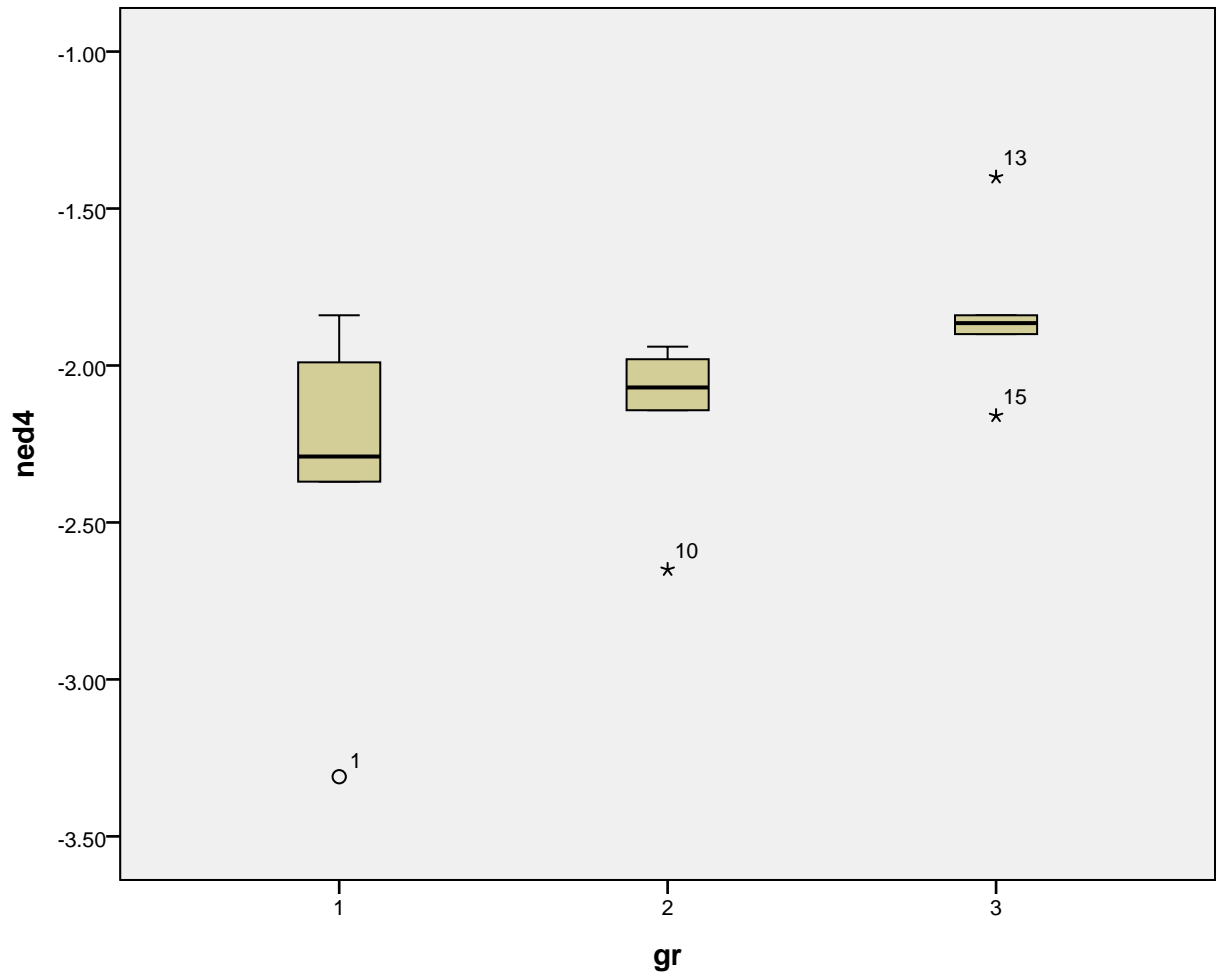
for gr= 2



Detrended Normal Q-Q Plot of ned4

for gr= 3





ned8

Stem-and-Leaf Plots

ned8 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
1.00	-2 .	3
3.00	-1 .	778
2.00	-1 .	24

Stem width: 1.00
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	Extremes	(= \leq -1.28)
3.00	-8 .	356
1.00	-7 .	4
.00	-6 .	
1.00	-5 .	8

Stem width: .10
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 3

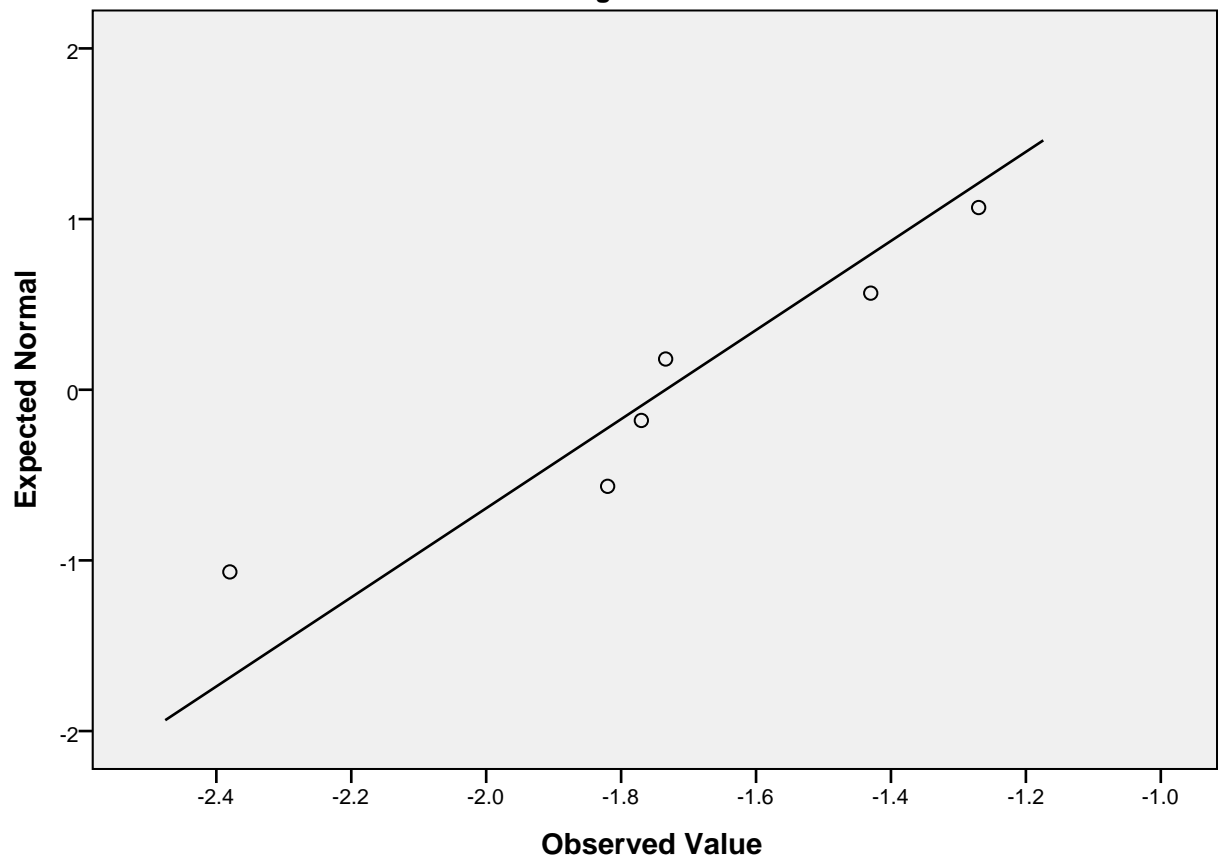
Frequency	Stem &	Leaf
2.00	-3 .	02
2.00	-2 .	78
2.00	-2 .	24

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

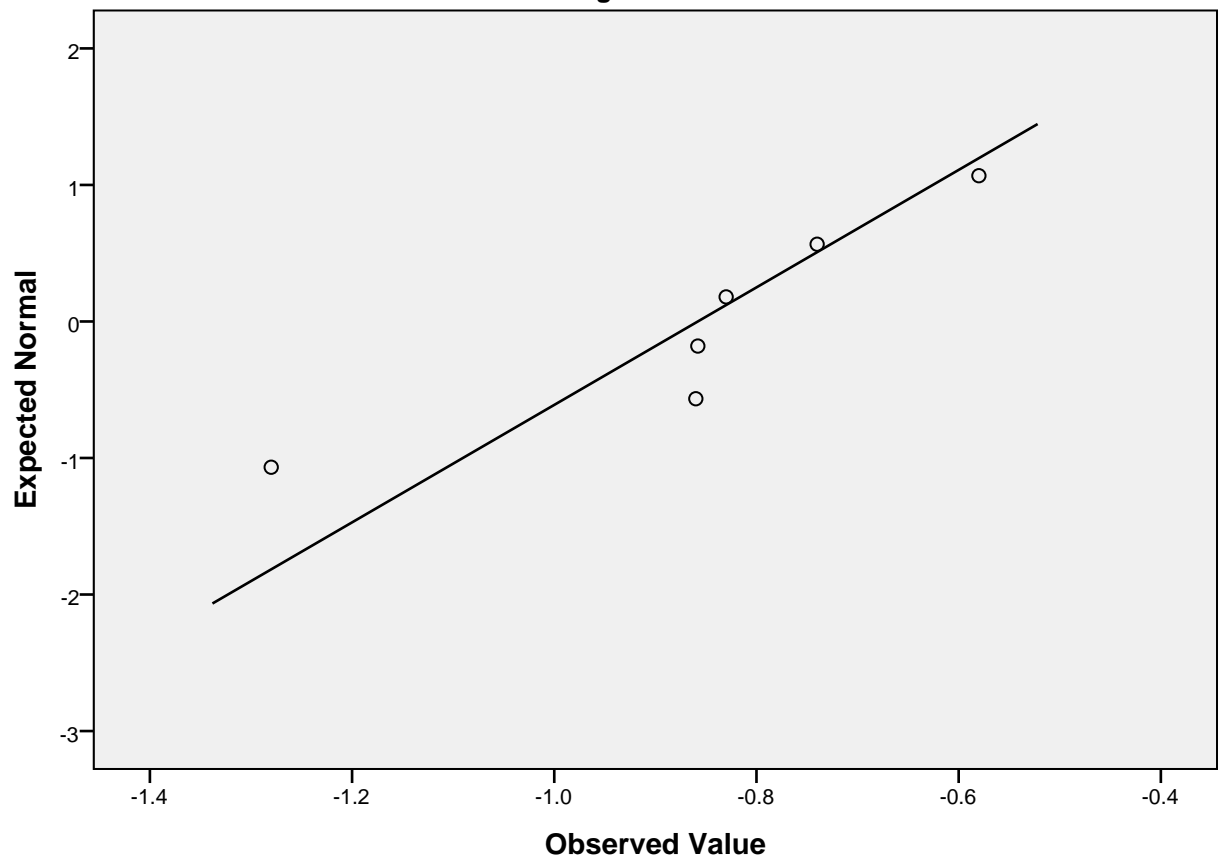
Normal Q-Q Plot of ned8

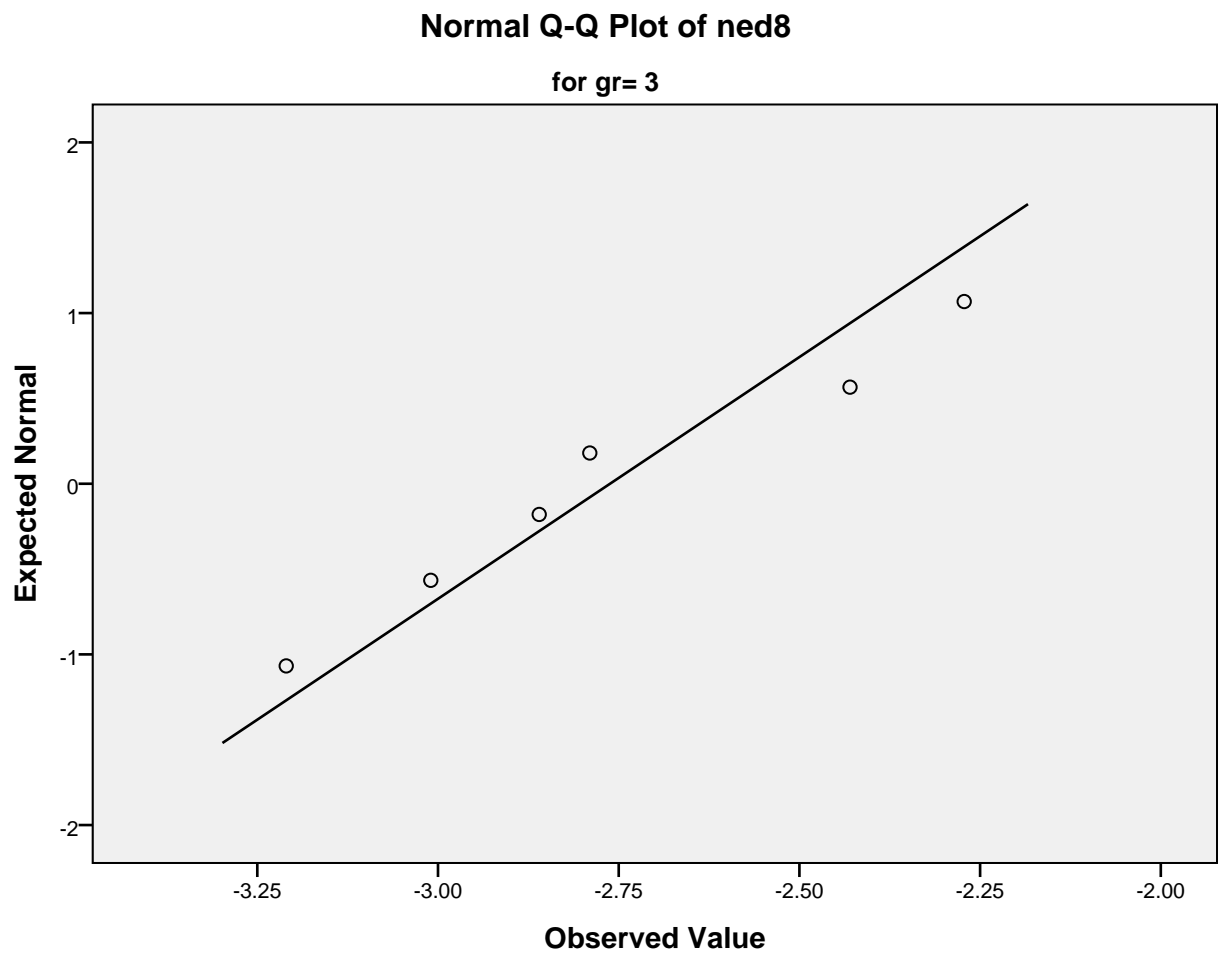
for gr= 1



Normal Q-Q Plot of ned8

for gr= 2

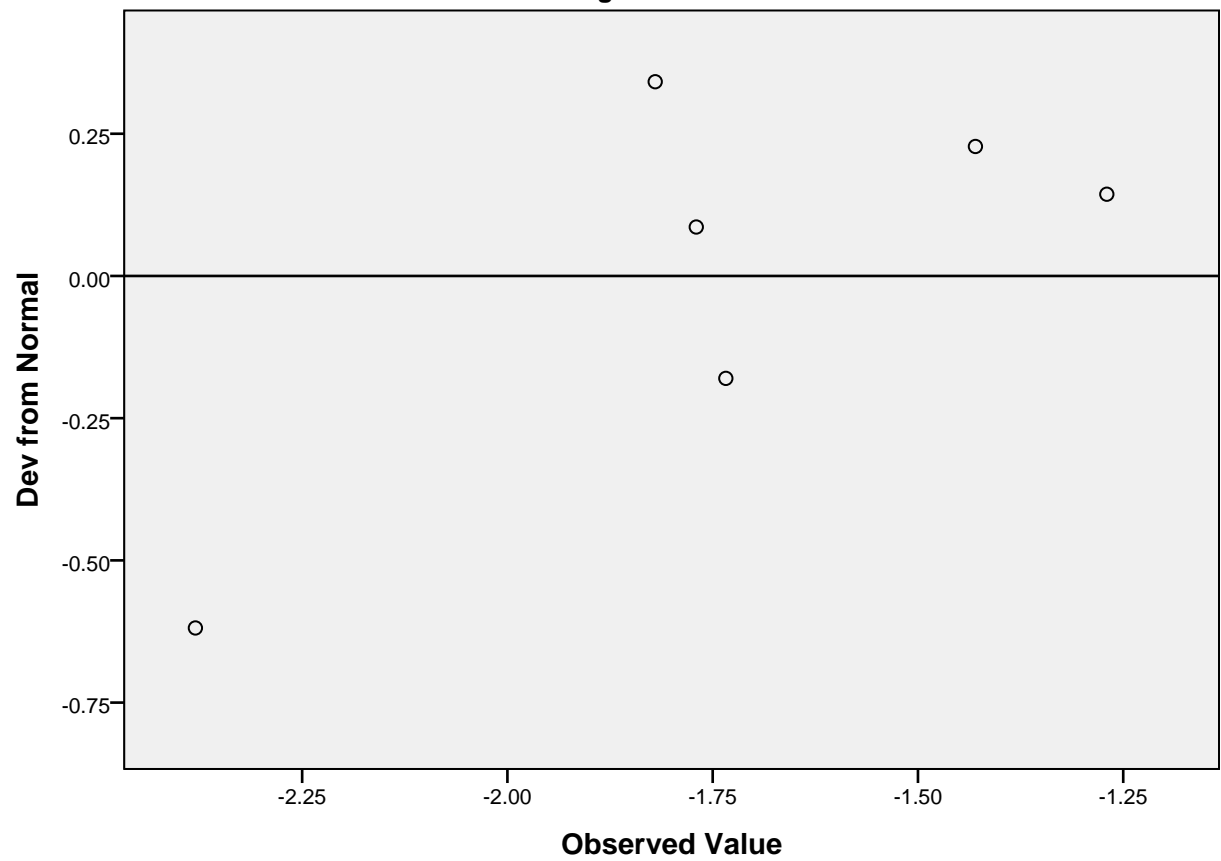




Detrended Normal Q-Q Plots

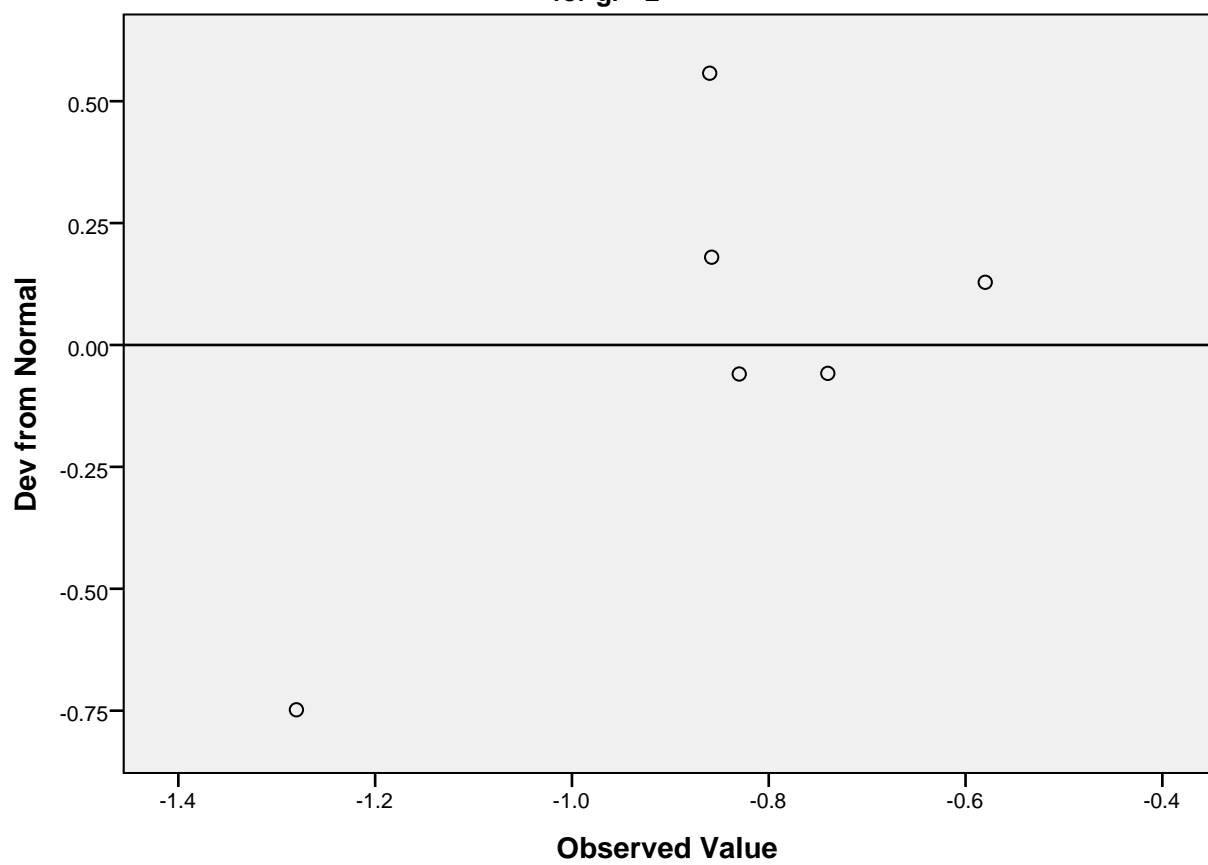
Detrended Normal Q-Q Plot of ned8

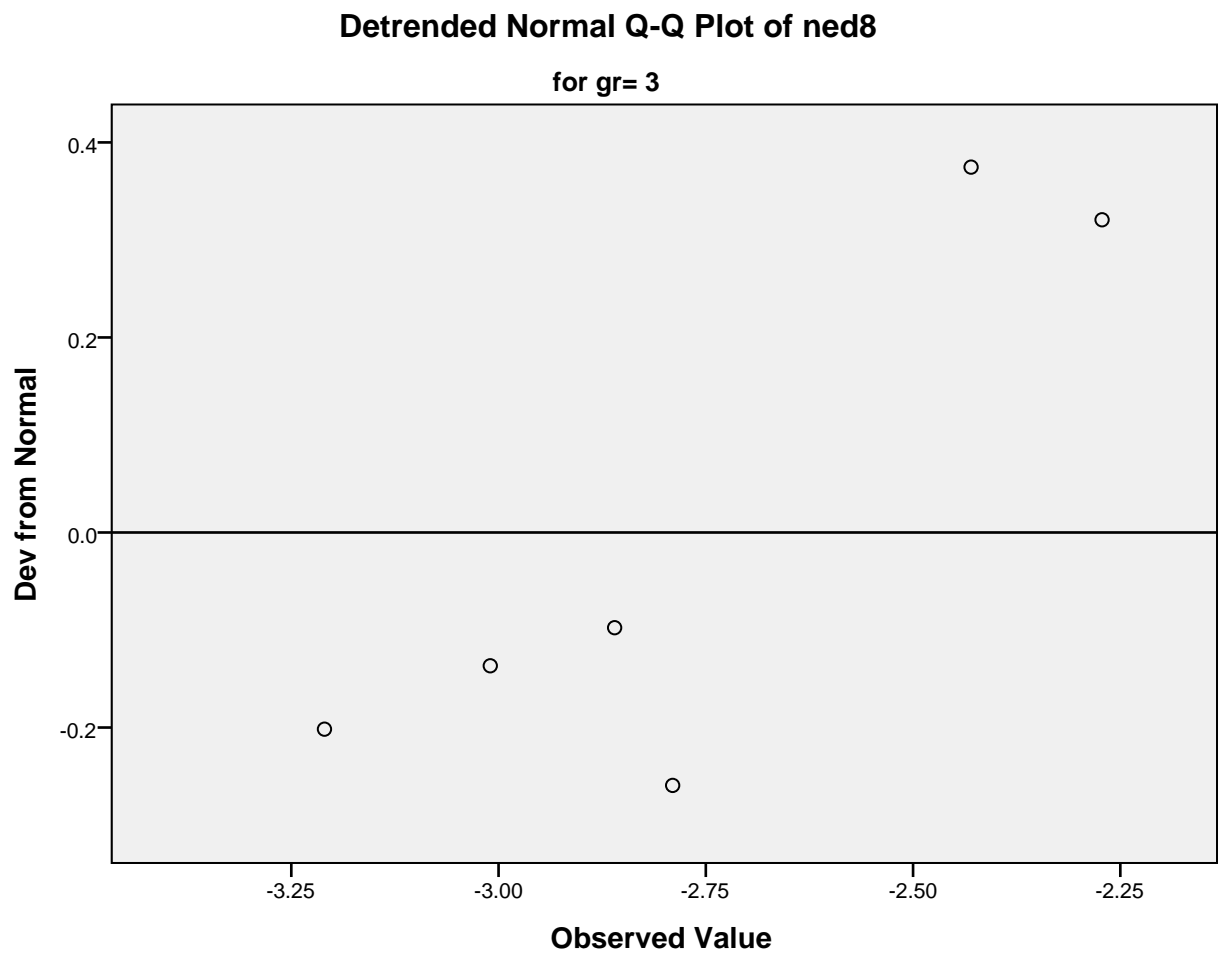
for gr= 1

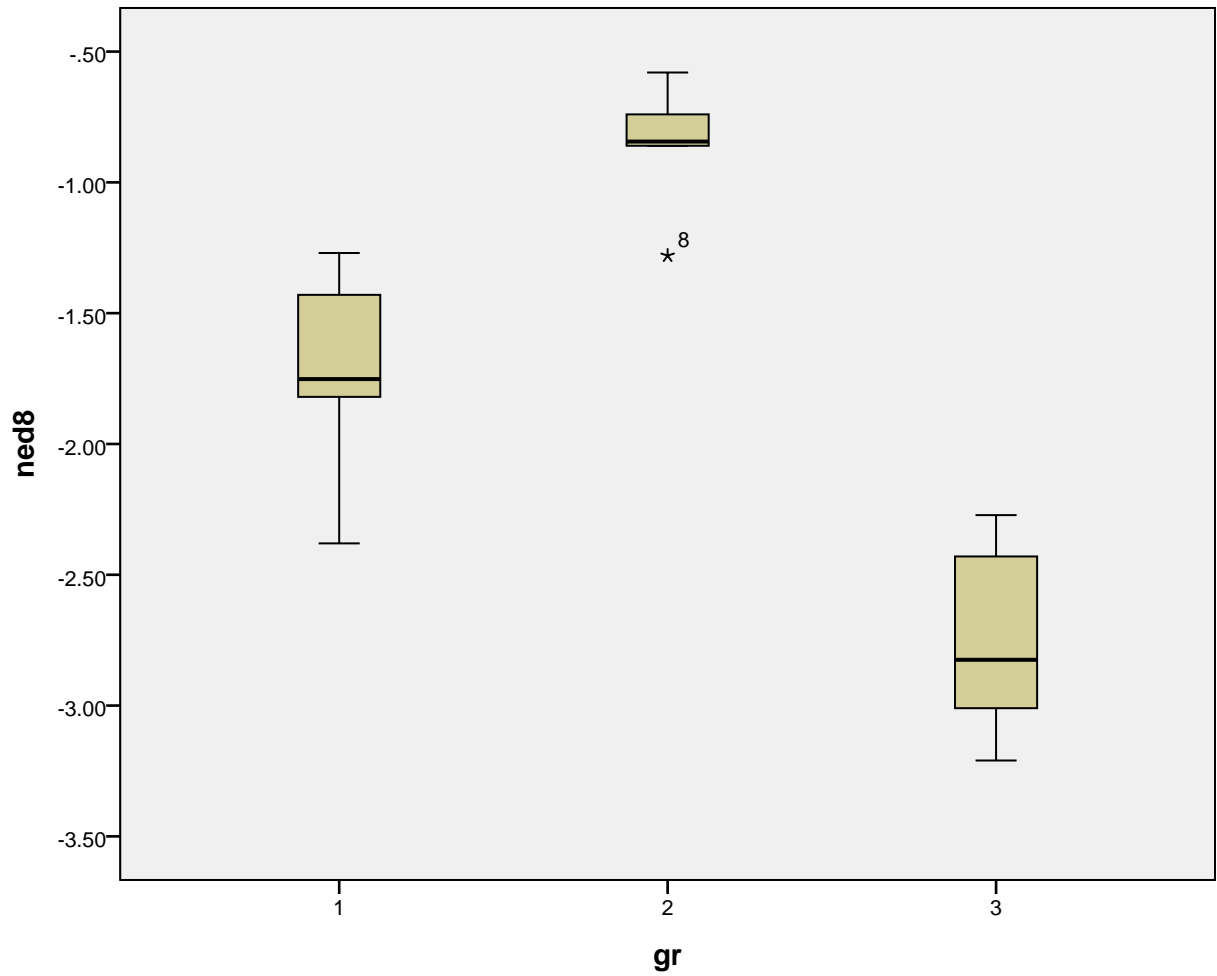


Detrended Normal Q-Q Plot of ned8

for gr= 2







```
NPAR TESTS  
  /K-W=ned1 ned2 ned4 ned8 BY gr(1 3)  
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 22:42:43	
Comments			
Input	Active Dataset	DataSet1	
	Filter	<none>	
	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File	21	
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.	
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.	
Syntax		NPAR TESTS /K-W=ned1 ned2 ned4 ned8 BY gr (1 3) /MISSING ANALYSIS.	
Resources	Processor Time	00 00:00:00.000	
	Elapsed Time	00 00:00:00.010	
	Number of Cases	78643	
	Allowed ^a		

a. Based on availability of workspace memory.

[DataSet1]

Kruskal-Wallis Test

Ranks

gr		N	Mean Rank
ned1	1	6	7.83
	2	6	6.17
	3	6	14.50
	Total	18	
ned2	1	6	5.33
	2	6	15.50
	3	6	7.67
	Total	18	
ned4	1	6	6.50
	2	6	8.17
	3	6	13.83
	Total	18	
ned8	1	6	9.50
	2	6	15.33
	3	6	3.67
	Total	18	

Test Statistics^{a,b}

	ned1	ned2	ned4	ned8
Chi-Square	8.204	11.954	6.248	14.327
df	2	2	2	2
Asymp. Sig.	.017	.003	.044	.001

a. Kruskal Wallis Test
b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 2)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created	11-Apr-2016 22:44:15	
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	21
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax	NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (1 2) /MISSING ANALYSIS.	
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.002
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet1]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	6.83	41.00
	2	6	6.17	37.00
	Total	12		
ned2	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		
ned4	1	6	5.67	34.00
	2	6	7.33	44.00
	Total	12		
ned8	1	6	3.67	22.00
	2	6	9.33	56.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	16.000	.000	13.000	1.000
Wilcoxon W	37.000	21.000	34.000	22.000
Z	-.321	-2.887	-.801	-2.722
Asymp. Sig. (2-tailed)	.748	.004	.423	.006
Exact Sig. [2*(1-tailed Sig.)]	.818 ^a	.002 ^a	.485 ^a	.004 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 3)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 22:45:10
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	21
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (1 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.015
	Elapsed Time	00 00:00:00.008
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet1]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	4.50	27.00
	3	6	8.50	51.00
	Total	12		
ned2	1	6	5.33	32.00
	3	6	7.67	46.00
	Total	12		
ned4	1	6	4.33	26.00
	3	6	8.67	52.00
	Total	12		
ned8	1	6	9.33	56.00
	3	6	3.67	22.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	6.000	11.000	5.000	1.000
Wilcoxon W	27.000	32.000	26.000	22.000
Z	-1.925	-1.121	-2.096	-2.722
Asymp. Sig. (2-tailed)	.054	.262	.036	.006
Exact Sig. [2*(1-tailed Sig.)]	.065 ^a	.310 ^a	.041 ^a	.004 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(2 3)
```

```
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 22:45:46
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	21
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (2 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.003
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet1]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	2	6	3.50	21.00
	3	6	9.50	57.00
	Total	12		
ned2	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned4	2	6	4.33	26.00
	3	6	8.67	52.00
	Total	12		
ned8	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	.000	.000	5.000	.000
Wilcoxon W	21.000	21.000	26.000	21.000
Z	-2.892	-2.887	-2.085	-2.882
Asymp. Sig. (2-tailed)	.004	.004	.037	.004
Exact Sig. [2*(1-tailed Sig.)]	.002 ^a	.002 ^a	.041 ^a	.002 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

```

GET DATA
  /TYPE=XLS
  /FILE='C:\Users\vlada\Desktop\jelena rad #3\output poredjenje grupa JN.xls'
  /SHEET=name 'Egr-1'
  /CELLRANGE=full
  /READNAMES=on
  /ASSUMEDSTRWIDTH=32767.
EXECUTE.
DATASET NAME DataSet2 WINDOW=FRONT.
EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr
  /PLOT BOXPLOT STEMLEAF NPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.

```

Explore

Notes

Output Created		11-Apr-2016 22:52:28
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00 00:00:04.025
	Elapsed Time	00 00:00:04.072

[DataSet2]

gr

Case Processing Summary

gr		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
ned1	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned2	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned4	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned8	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%

Descriptives

gr				Statistic	Std. Error
ned1	1	Mean		.7100	.10386
		95% Confidence Interval for Mean	Lower Bound	.4430	
			Upper Bound	.9770	
		5% Trimmed Mean		.7067	
		Median		.7100	
		Variance		.065	
		Std. Deviation		.25440	
		Minimum		.42	
		Maximum		1.06	
		Range		.64	
		Interquartile Range		.52	
		Skewness		.147	
		Kurtosis		-1.347	
		2	Mean		
	95% Confidence Interval for Mean		Lower Bound	1.1011	
			Upper Bound	1.7831	
	5% Trimmed Mean		1.4312		
	Median		1.4413		
	Variance		.106		
	Std. Deviation		.32492		
	Minimum		1.07		
	Maximum		2.01		
	Range		.94		
	Interquartile Range		.47		
	Skewness		1.013		
Kurtosis		1.741			

Descriptives

gr				Statistic	Std. Error
ned1	3	Mean		-2.2358	.14755
		95% Confidence Interval for Mean	Lower Bound	-2.6151	
			Upper Bound	-1.8565	
		5% Trimmed Mean		-2.2365	
		Median		-2.2375	
		Variance		.131	
		Std. Deviation		.36142	
		Minimum		-2.80	
		Maximum		-1.66	
		Range		1.14	
		Interquartile Range		.34	
		Skewness		.072	
		Kurtosis		2.417	
					.845
					1.741
ned2	1	Mean		.2060	.05981
		95% Confidence Interval for Mean	Lower Bound	.0523	
			Upper Bound	.3597	
		5% Trimmed Mean		.2061	
		Median		.1930	
		Variance		.021	
		Std. Deviation		.14651	
		Minimum		.03	
		Maximum		.38	
		Range		.35	
		Interquartile Range		.31	
		Skewness		.162	
		Kurtosis		-1.780	
					.845
					1.741

Descriptives

gr				Statistic	Std. Error
ned2	2	Mean		1.8220	.18203
		95% Confidence Interval for Mean	Lower Bound	1.3541	
			Upper Bound	2.2899	
		5% Trimmed Mean		1.8017	
		Median		1.7900	
		Variance		.199	
		Std. Deviation		.44589	
		Minimum		1.36	
		Maximum		2.65	
		Range		1.29	
		Interquartile Range		.55	
		Skewness		1.493	.845
		Kurtosis		3.028	1.741
	3	Mean		.3400	.10396
		95% Confidence Interval for Mean	Lower Bound	.0728	
			Upper Bound	.6072	
		5% Trimmed Mean		.3372	
		Median		.3400	
		Variance		.065	
		Std. Deviation		.25464	
		Minimum		.04	
		Maximum		.69	
		Range		.65	
		Interquartile Range		.51	
		Skewness		.137	.845
		Kurtosis		-1.318	1.741

Descriptives

gr				Statistic	Std. Error	
ned4	1	Mean		1.5617	.24912	
		95% Confidence Interval for Mean	Lower Bound	.9213		
			Upper Bound	2.2021		
		5% Trimmed Mean		1.5835		
		Median		1.9050		
		Variance		.372		
		Std. Deviation		.61023		
		Minimum		.69		
		Maximum		2.04		
		Range		1.35		
		Interquartile Range		1.16		
		Skewness		-.976		.845
		Kurtosis		-1.647		1.741
			2	Mean		.9321
95% Confidence Interval for Mean	Lower Bound			.7098		
	Upper Bound			1.1543		
5% Trimmed Mean				.9262		
Median				.9313		
Variance				.045		
Std. Deviation				.21179		
Minimum				.69		
Maximum				1.28		
Range				.59		
Interquartile Range				.36		
Skewness				.680	.845	
Kurtosis				.537	1.741	

Descriptives

gr				Statistic	Std. Error
ned4	3	Mean		.6079	.12478
		95% Confidence Interval for Mean	Lower Bound	.2872	
			Upper Bound	.9287	
		5% Trimmed Mean		.6166	
		Median		.6350	
		Variance		.093	
		Std. Deviation		.30564	
		Minimum		.06	
		Maximum		1.00	
		Range		.94	
		Interquartile Range		.31	
		Skewness		-1.082	
		Kurtosis		2.885	1.741
		ned8	1	Mean	
95% Confidence Interval for Mean	Lower Bound			1.2918	
	Upper Bound			2.1602	
5% Trimmed Mean				1.7394	
Median				1.8380	
Variance				.171	
Std. Deviation				.41379	
Minimum				1.10	
Maximum				2.11	
Range				1.01	
Interquartile Range				.80	
Skewness				-.721	.845
Kurtosis				-1.153	1.741

Descriptives

gr				Statistic	Std. Error
ned8	2	Mean		2.4060	.22810
		95% Confidence Interval for Mean	Lower Bound	1.8196	
			Upper Bound	2.9924	
		5% Trimmed Mean		2.3883	
		Median		2.4080	
		Variance		.312	
		Std. Deviation		.55873	
		Minimum		1.75	
		Maximum		3.38	
		Range		1.63	
		Interquartile Range		.79	
		Skewness		.981	
		Kurtosis		1.760	1.741
	3	Mean		-2.6260	.25674
		95% Confidence Interval for Mean	Lower Bound	-3.2860	
			Upper Bound	-1.9660	
		5% Trimmed Mean		-2.6586	
		Median		-2.8250	
		Variance		.395	
		Std. Deviation		.62888	
		Minimum		-3.21	
		Maximum		-1.46	
		Range		1.75	
		Interquartile Range		.87	
		Skewness		1.612	
		Kurtosis		2.777	1.741

Tests of Normality

gr	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ned1 1	.189	6	.200 [*]	.922	6	.520
2	.263	6	.200 [*]	.906	6	.412
3	.294	6	.115 [*]	.875	6	.246
ned2 1	.202	6	.200 [*]	.904	6	.401
2	.333	6	.036 [*]	.851	6	.159
3	.180	6	.200 [*]	.933	6	.600
ned4 1	.371	6	.010 [*]	.744	6	.017
2	.172	6	.200 [*]	.936	6	.627
3	.333	6	.037 [*]	.870	6	.227
ned8 1	.206	6	.200 [*]	.892	6	.331
2	.267	6	.200 [*]	.910	6	.434
3	.270	6	.198 [*]	.850	6	.158

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

ned1

Stem-and-Leaf Plots

ned1 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem & Leaf
2.00	0 . 44
3.00	0 . 779
1.00	1 . 0

Stem width: 1.00
Each leaf: 1 case(s)

ned1 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem & Leaf
4.00	1 . 0144

```
1.00      1 .  5
1.00 Extremes    (>=2.0)
```

```
Stem width:      1.00
Each leaf:       1 case(s)
```

ned1 Stem-and-Leaf Plot for
gr= 3

```
Frequency      Stem & Leaf

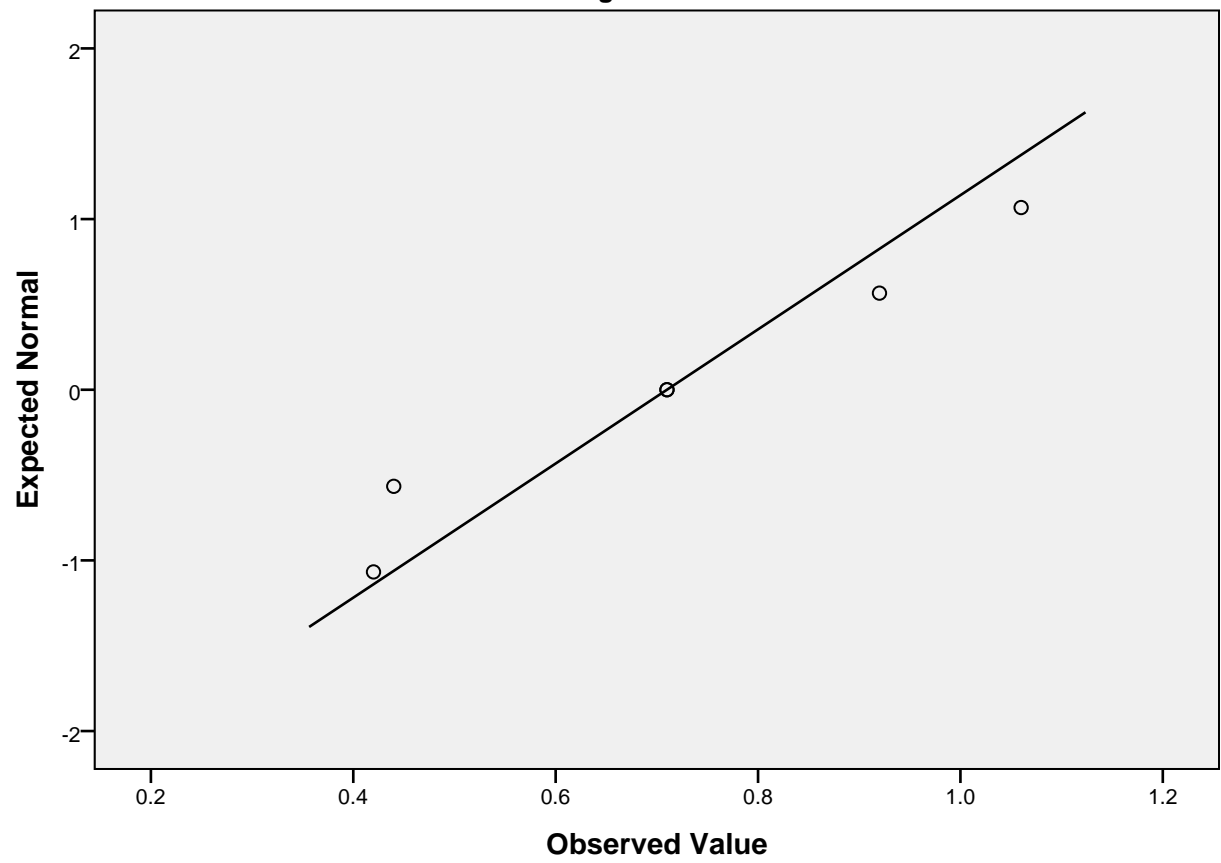
1.00 Extremes    (= < -2.80)
1.00      -22 .  8
3.00      -22 .  034
1.00 Extremes    (>= -1.66)
```

```
Stem width:      .10
Each leaf:       1 case(s)
```

Normal Q-Q Plots

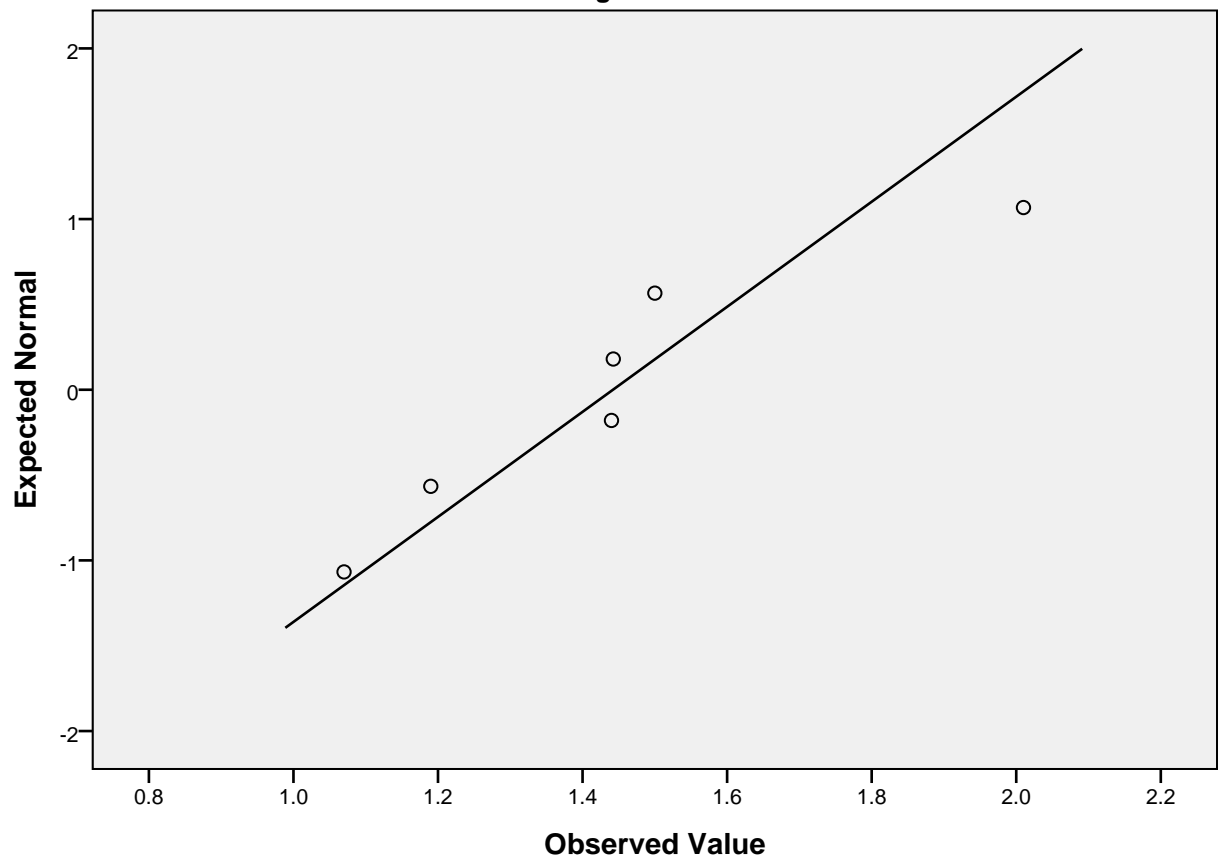
Normal Q-Q Plot of ned1

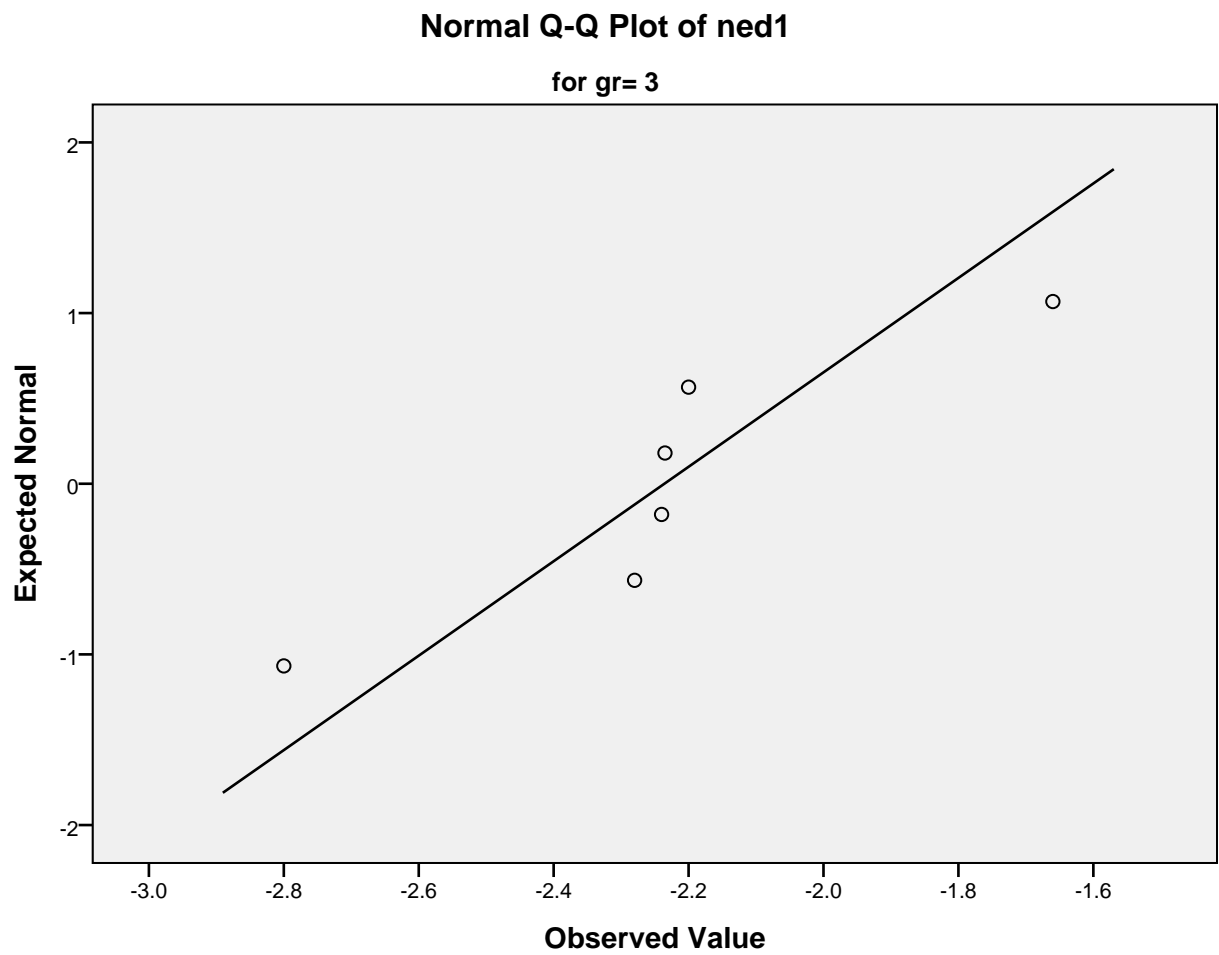
for gr= 1



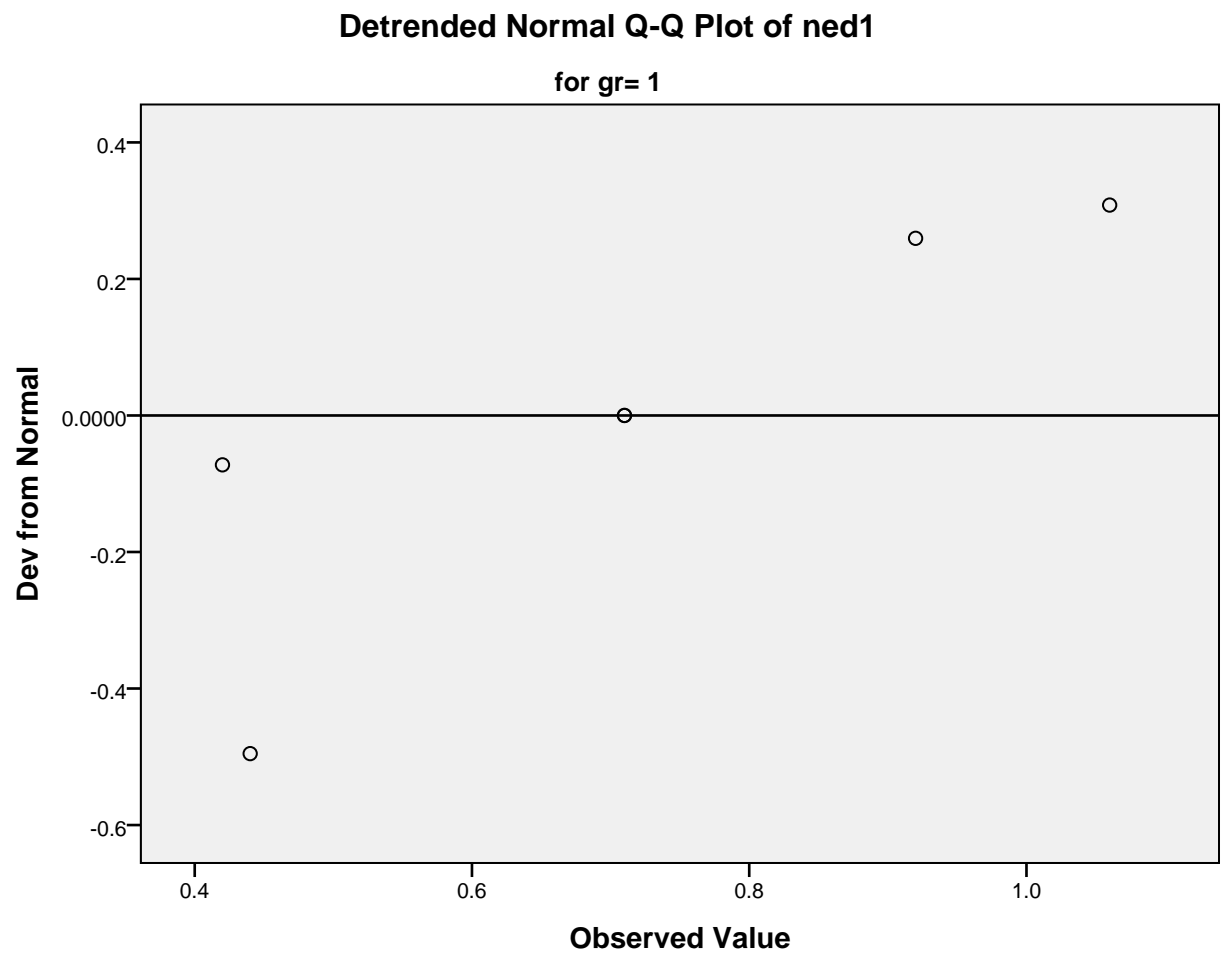
Normal Q-Q Plot of ned1

for gr= 2



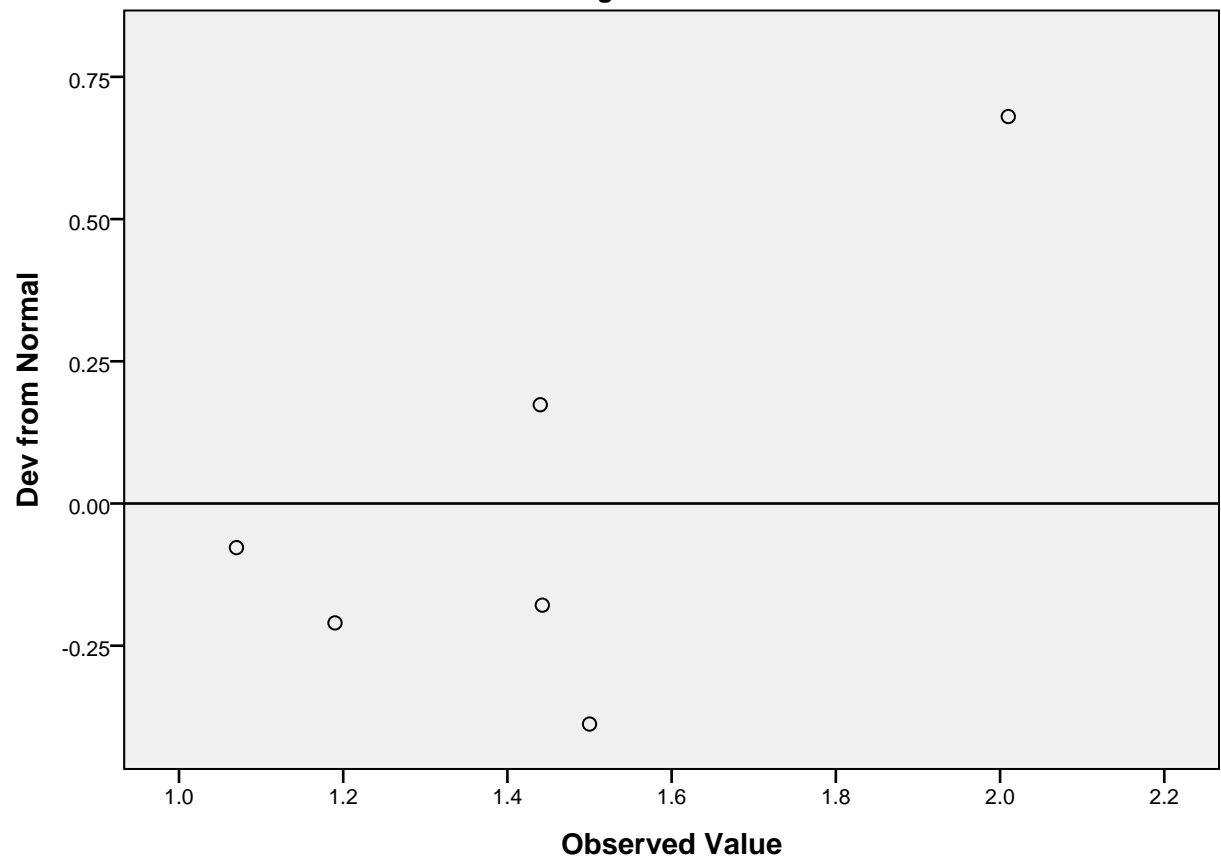


Detrended Normal Q-Q Plots



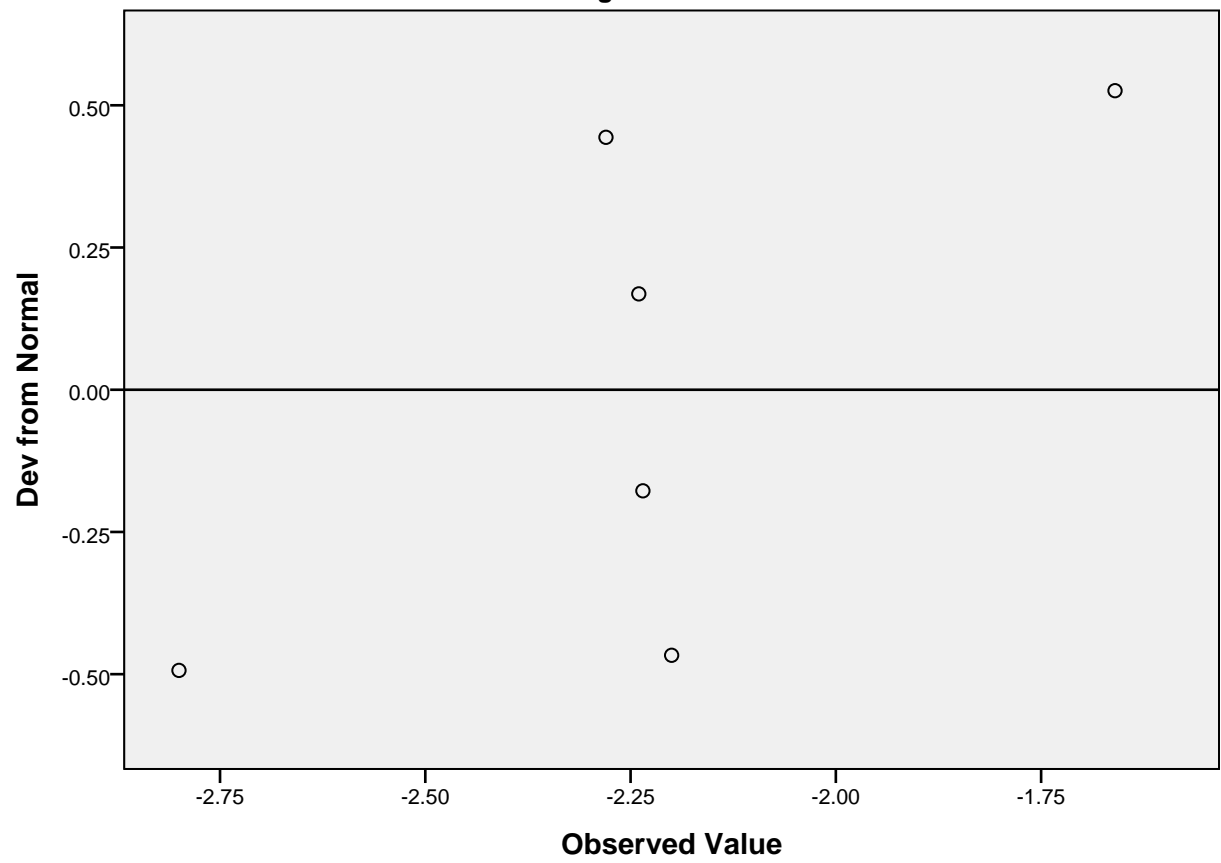
Detrended Normal Q-Q Plot of ned1

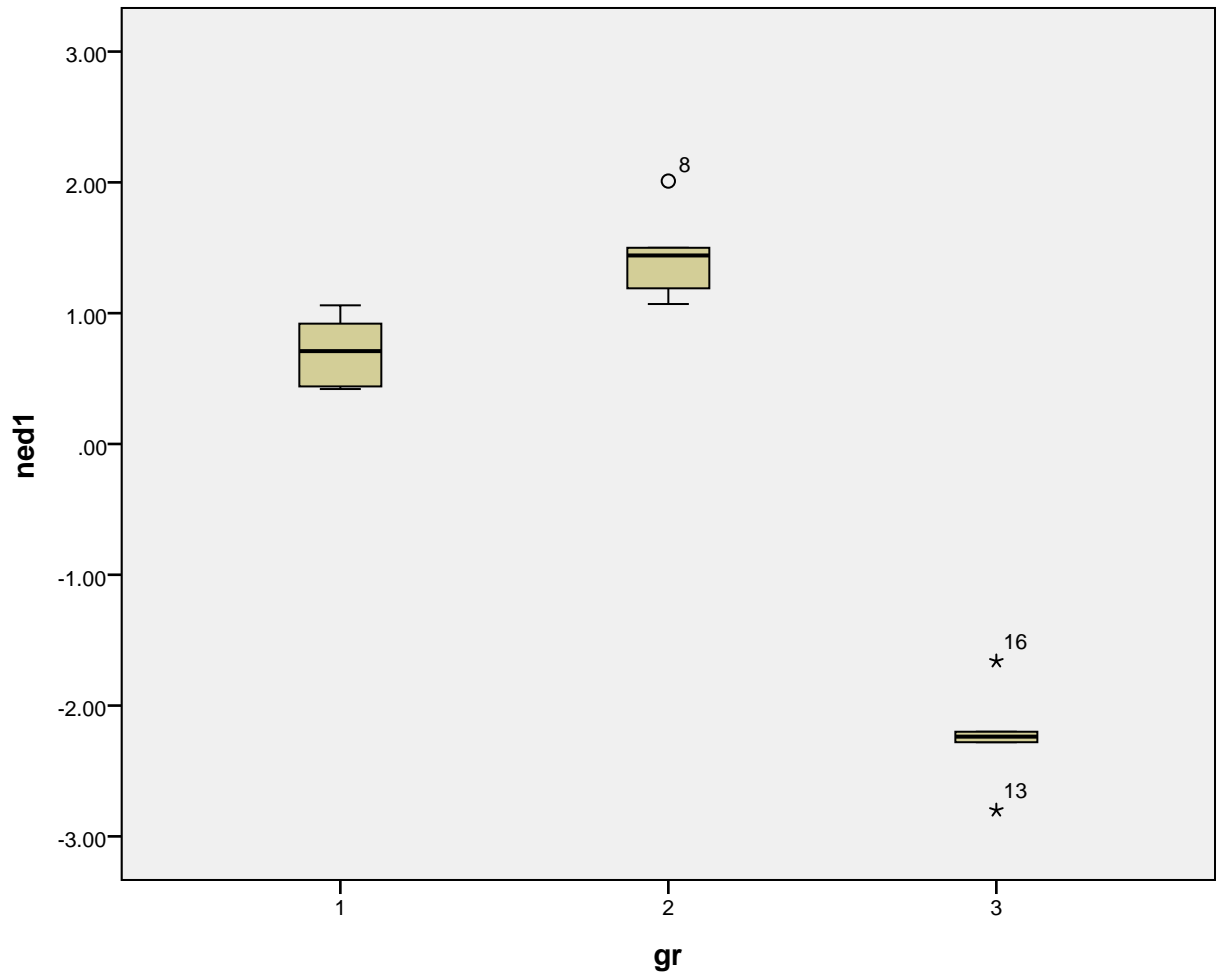
for gr= 2



Detrended Normal Q-Q Plot of ned1

for gr= 3





ned2

Stem-and-Leaf Plots

ned2 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
2.00	0 .	37
1.00	1 .	8
1.00	2 .	0
2.00	3 .	78

Stem width: .10
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	1 .	3
4.00	1 .	5788
1.00	Extremes	(>=2.7)

Stem width: 1.00
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 3

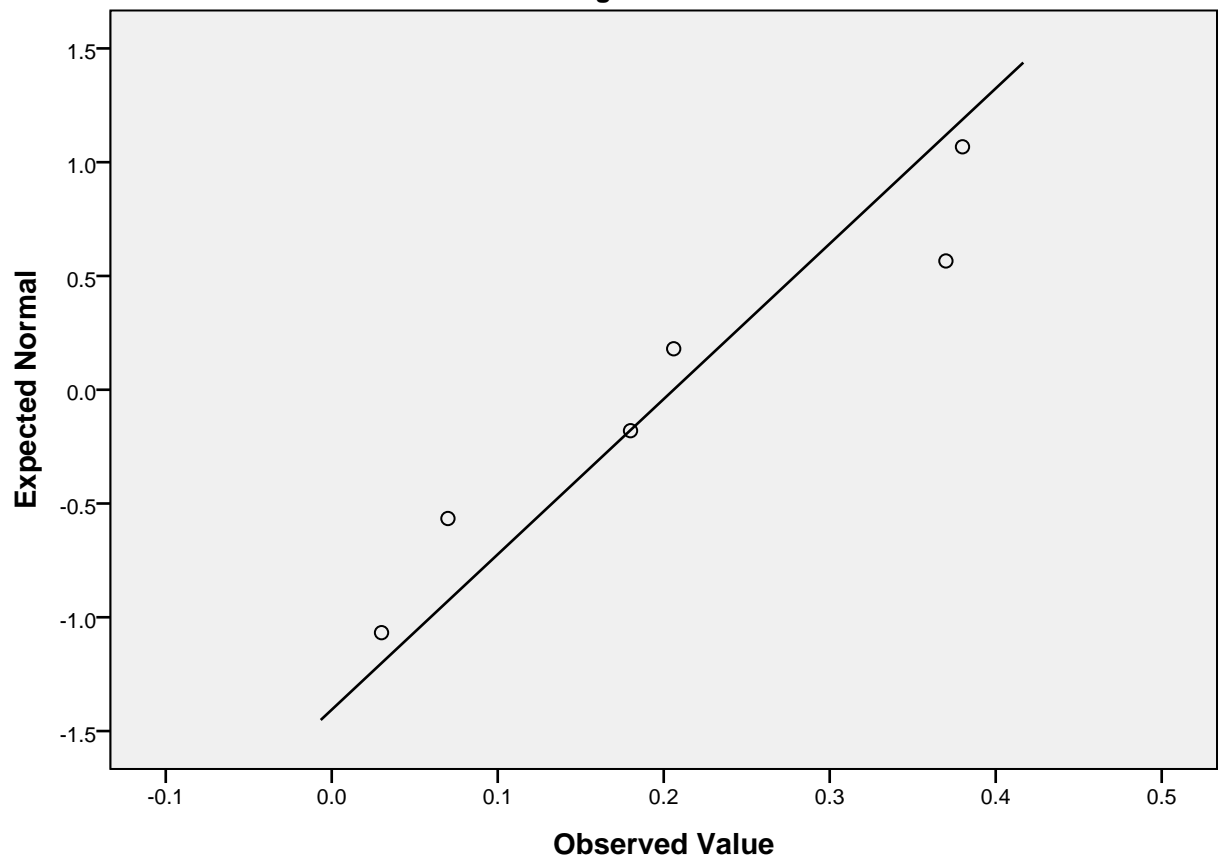
Frequency	Stem &	Leaf
4.00	0 .	0033
2.00	0 .	56

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

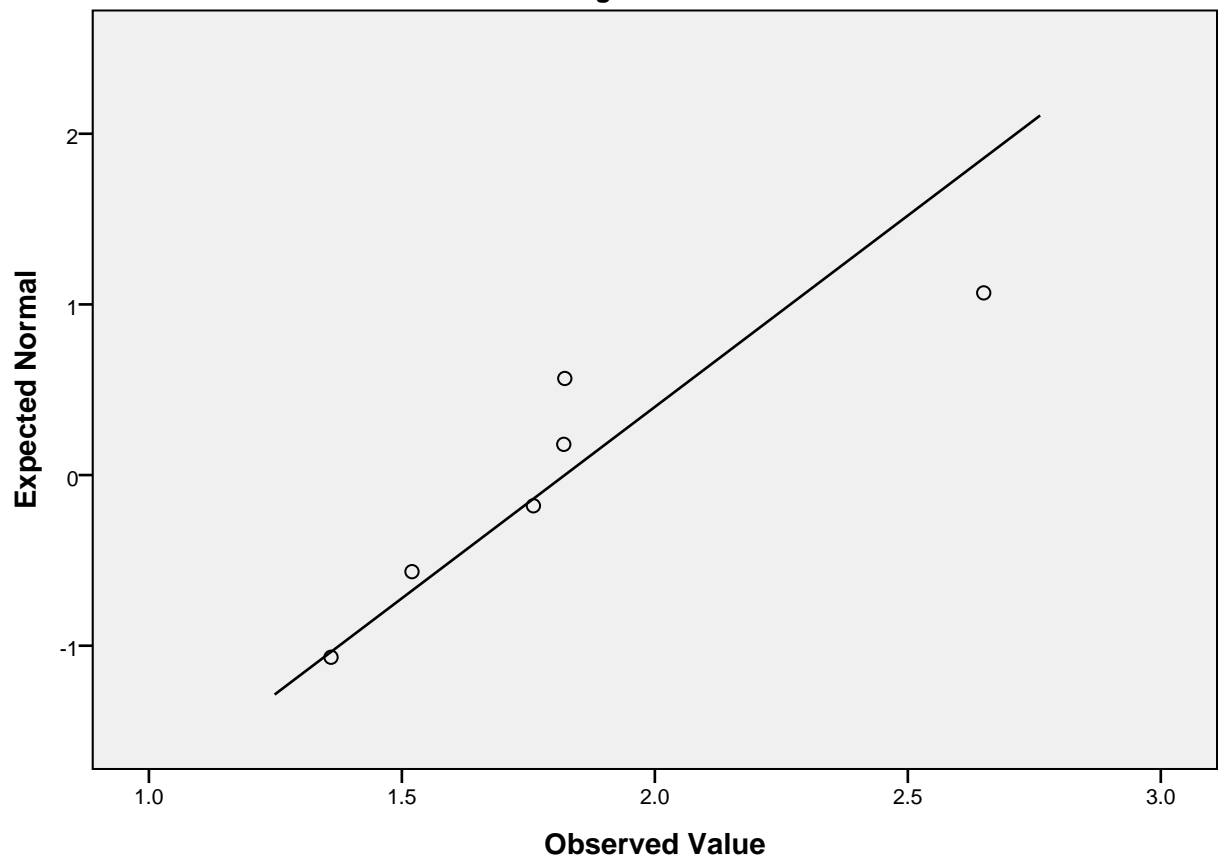
Normal Q-Q Plot of ned2

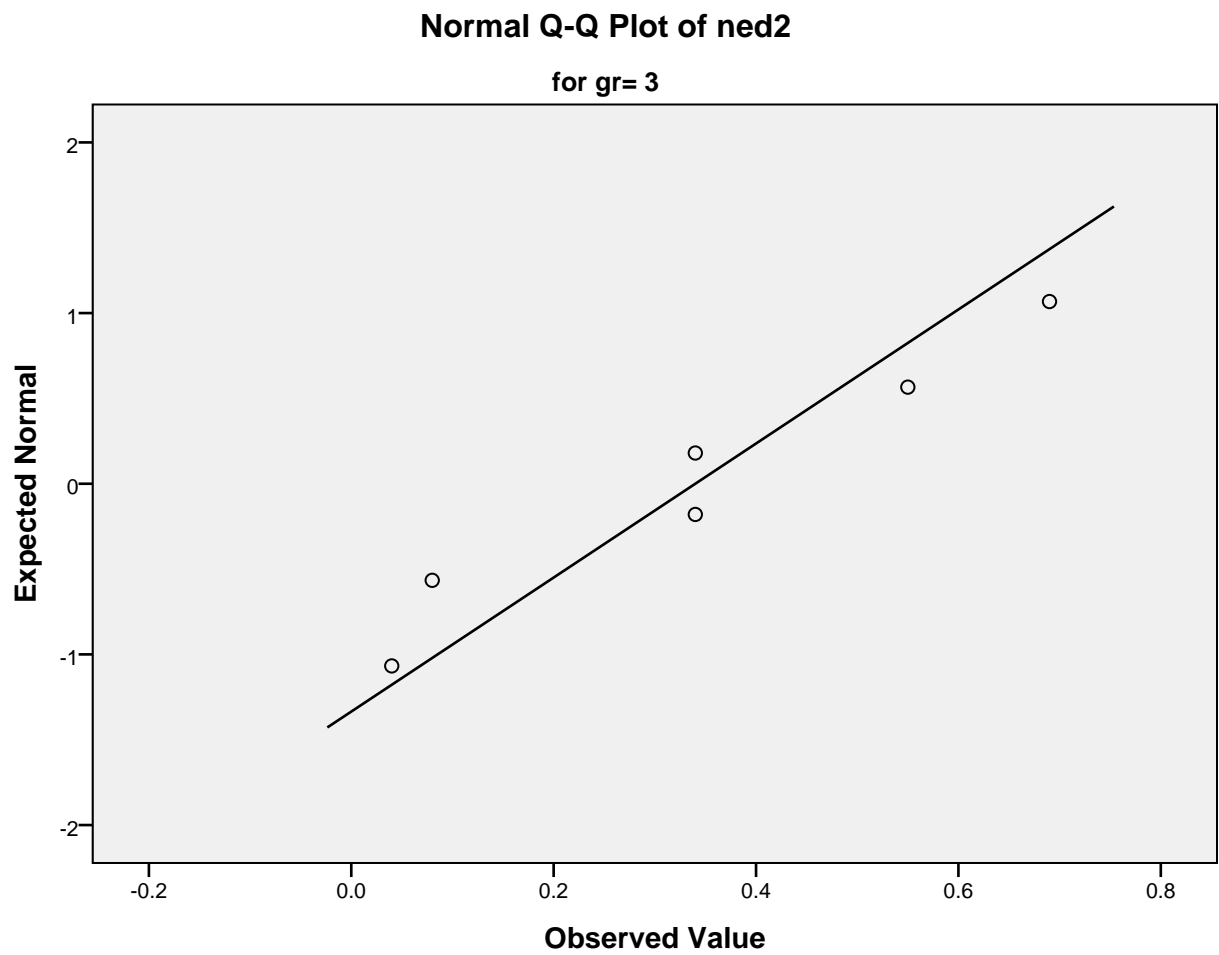
for gr= 1



Normal Q-Q Plot of ned2

for gr= 2

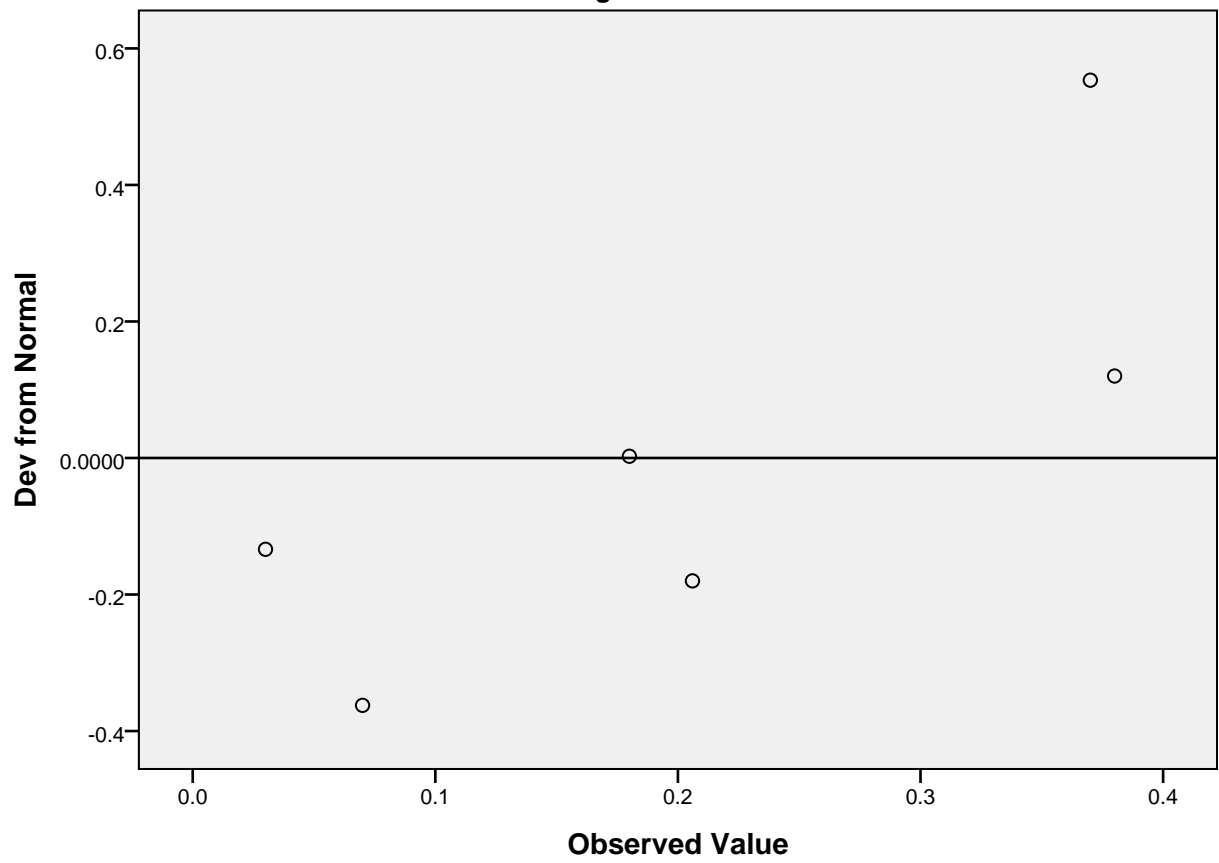




Detrended Normal Q-Q Plots

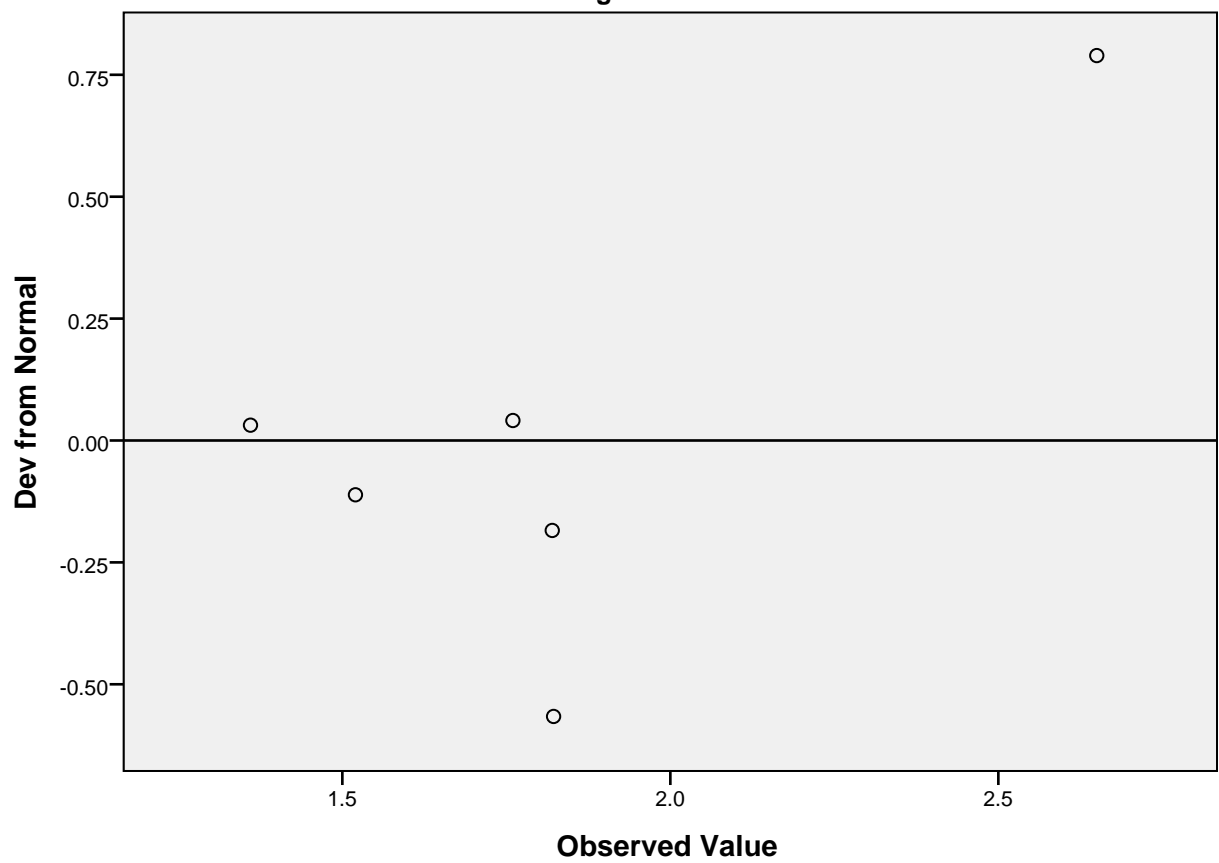
Detrended Normal Q-Q Plot of ned2

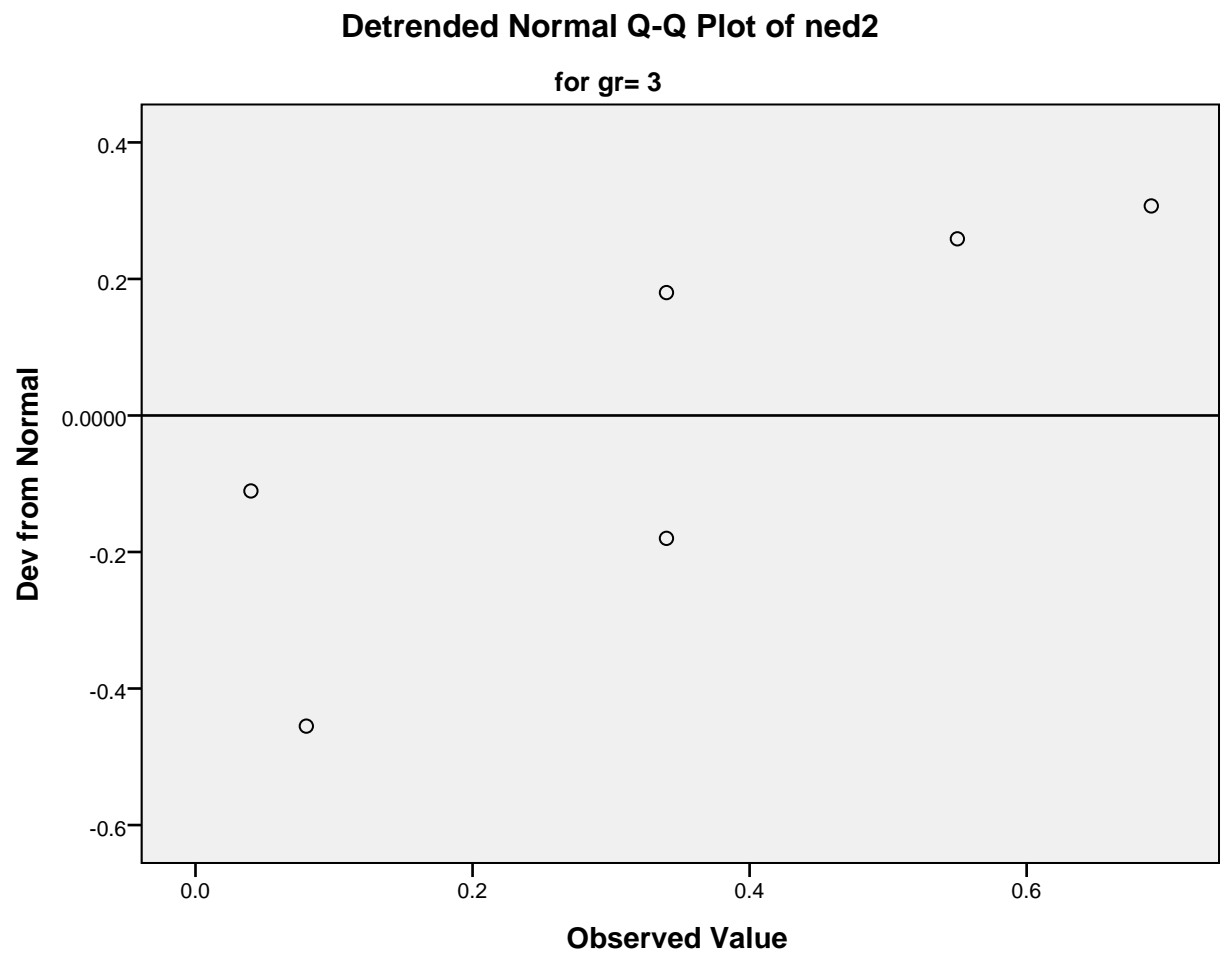
for gr= 1

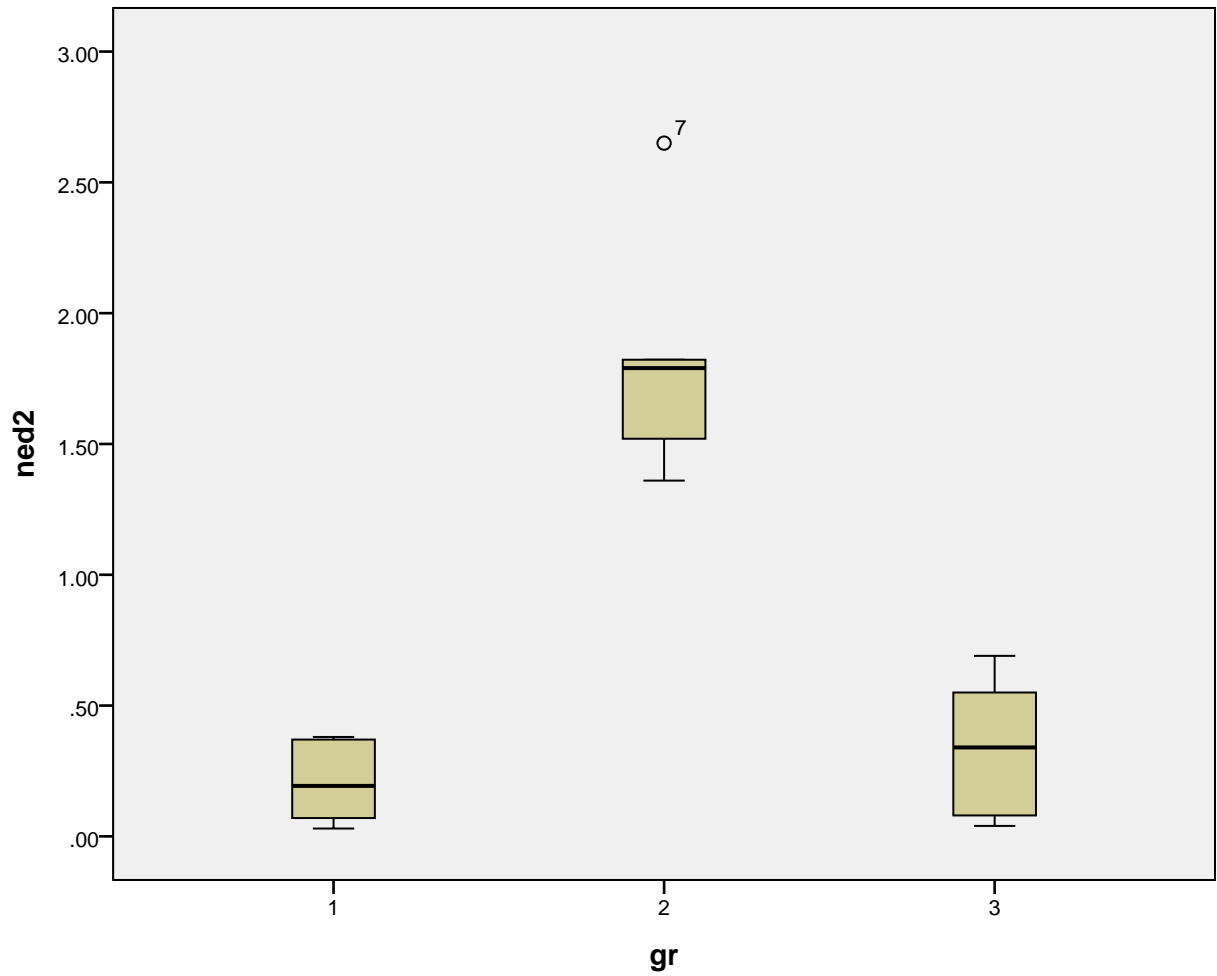


Detrended Normal Q-Q Plot of ned2

for gr= 2







ned4

Stem-and-Leaf Plots

ned4 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
2.00	0 .	68
3.00	1 .	899
1.00	2 .	0

Stem width: 1.00
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
4.00	0 .	6799
2.00	1 .	02

Stem width: 1.00
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 3

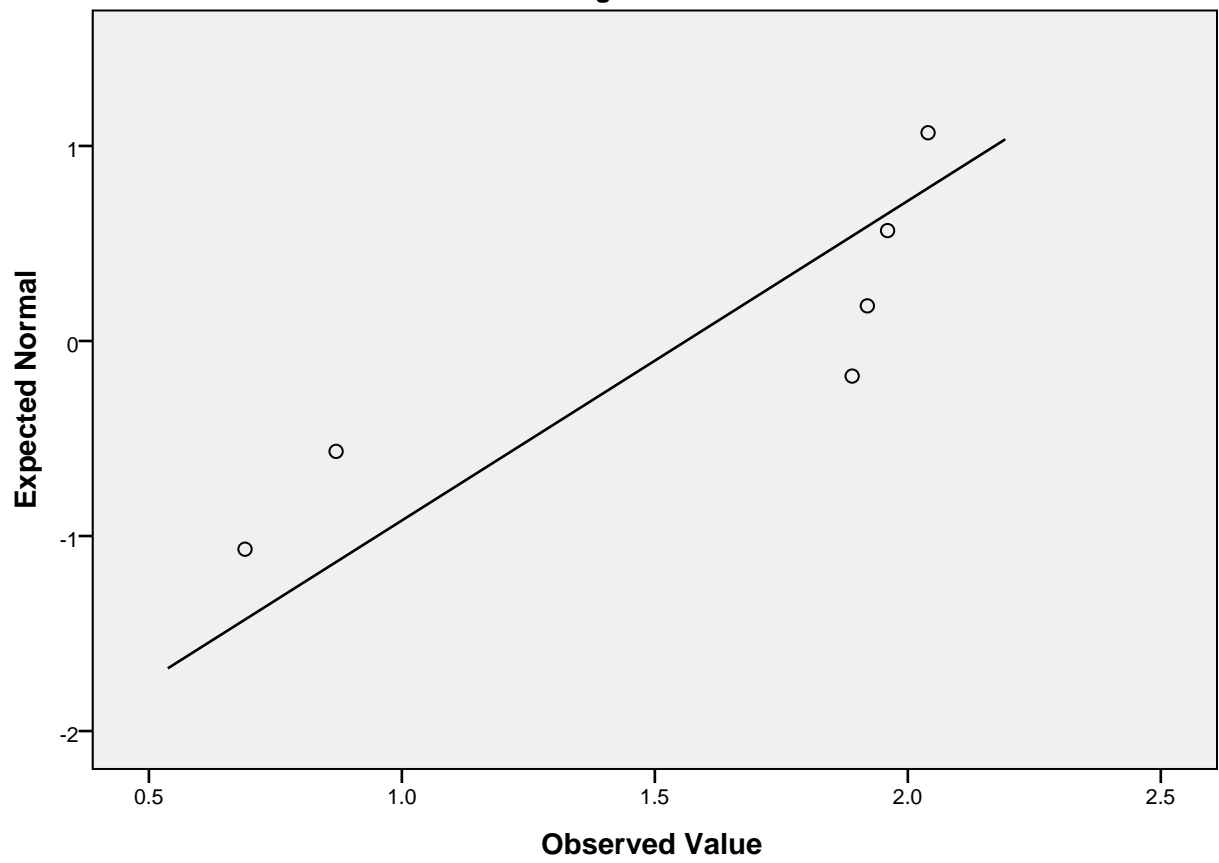
Frequency	Stem &	Leaf
1.00	Extremes	(= \leq .06)
2.00	6 .	01
1.00	6 .	6
1.00	7 .	1
1.00	Extremes	(\geq 1.00)

Stem width: .10
Each leaf: 1 case(s)

Normal Q-Q Plots

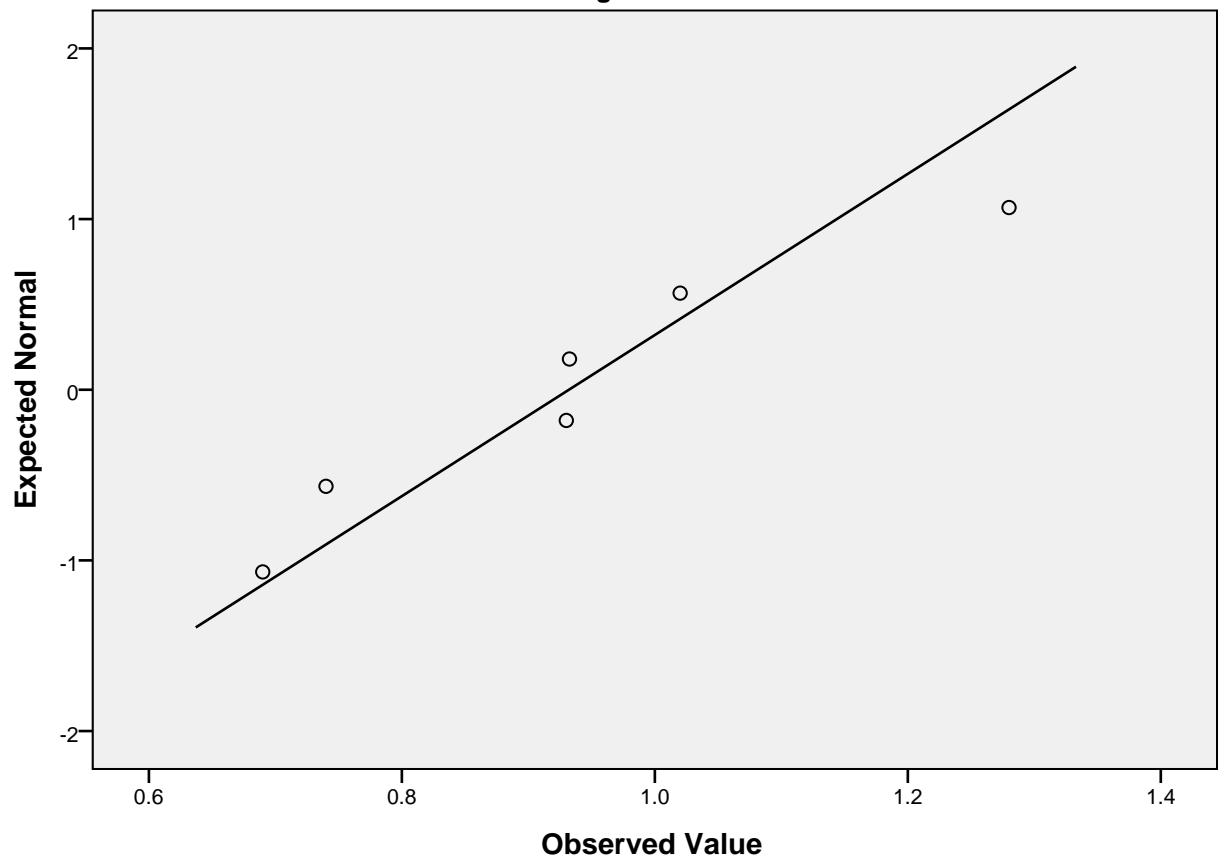
Normal Q-Q Plot of ned4

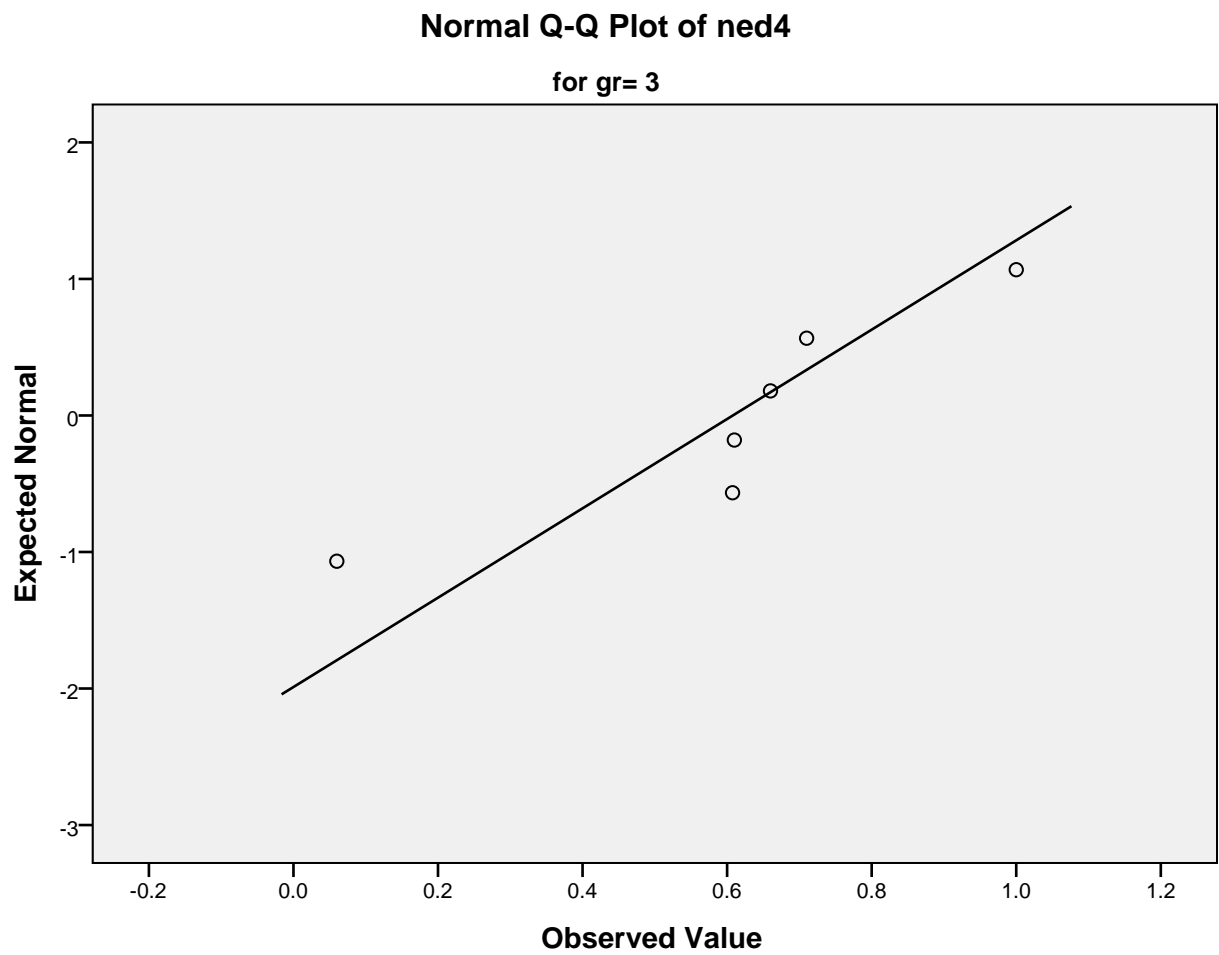
for gr= 1



Normal Q-Q Plot of ned4

for gr= 2

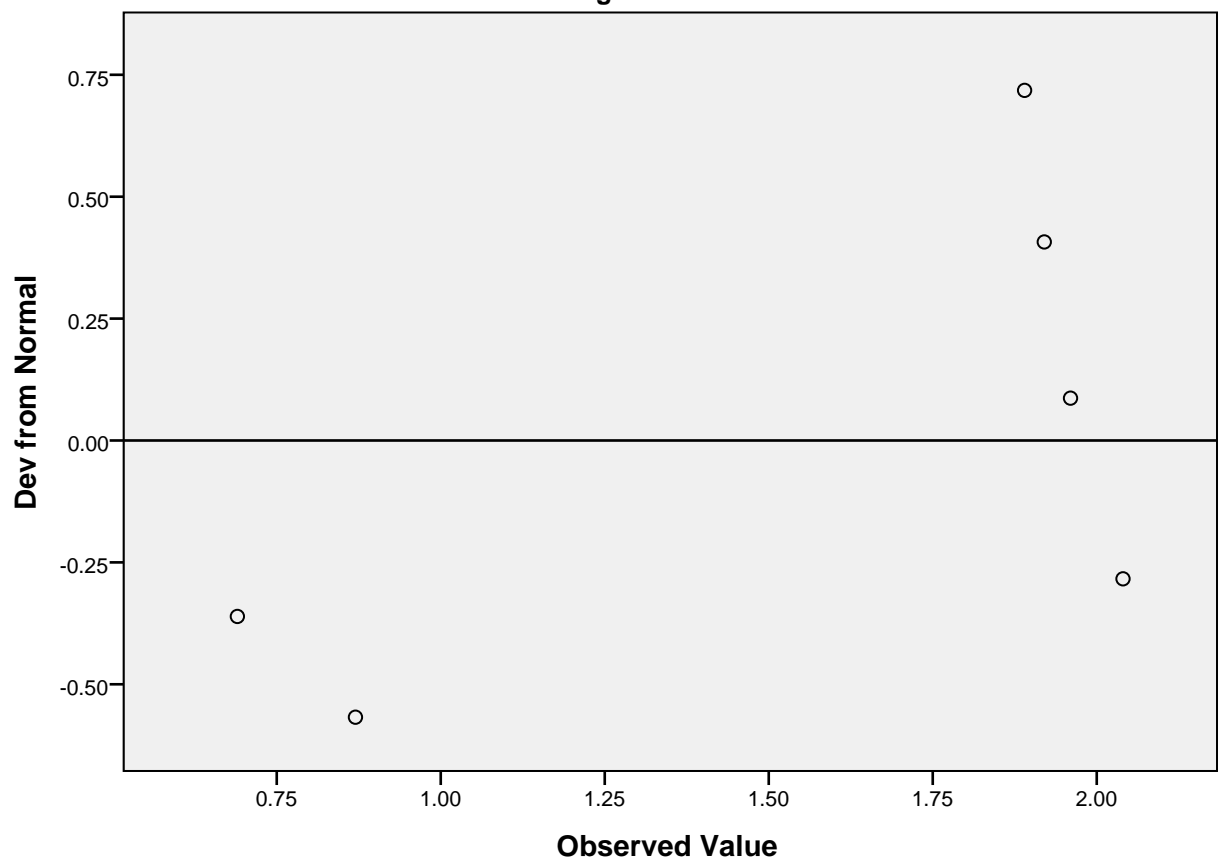


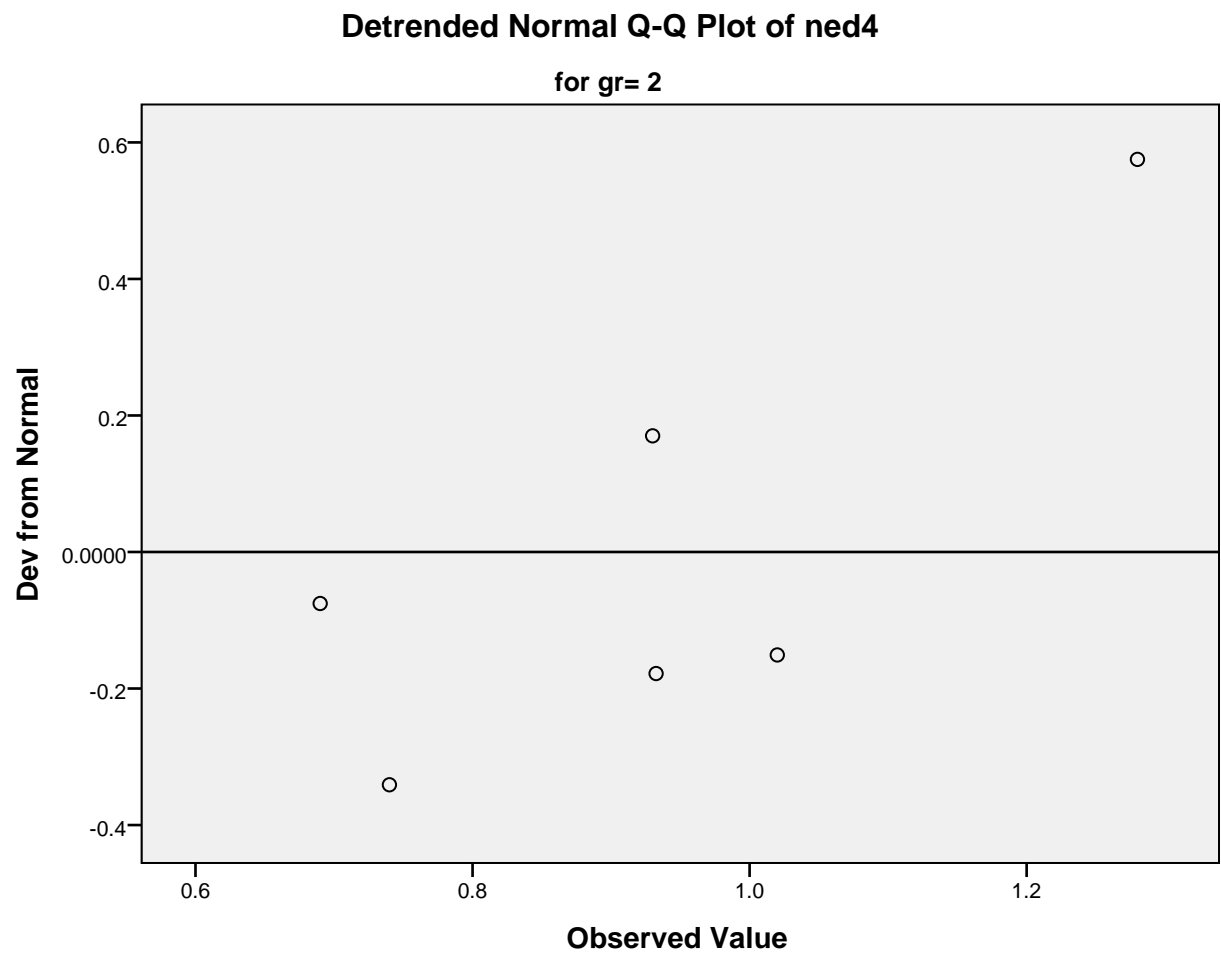


Detrended Normal Q-Q Plots

Detrended Normal Q-Q Plot of ned4

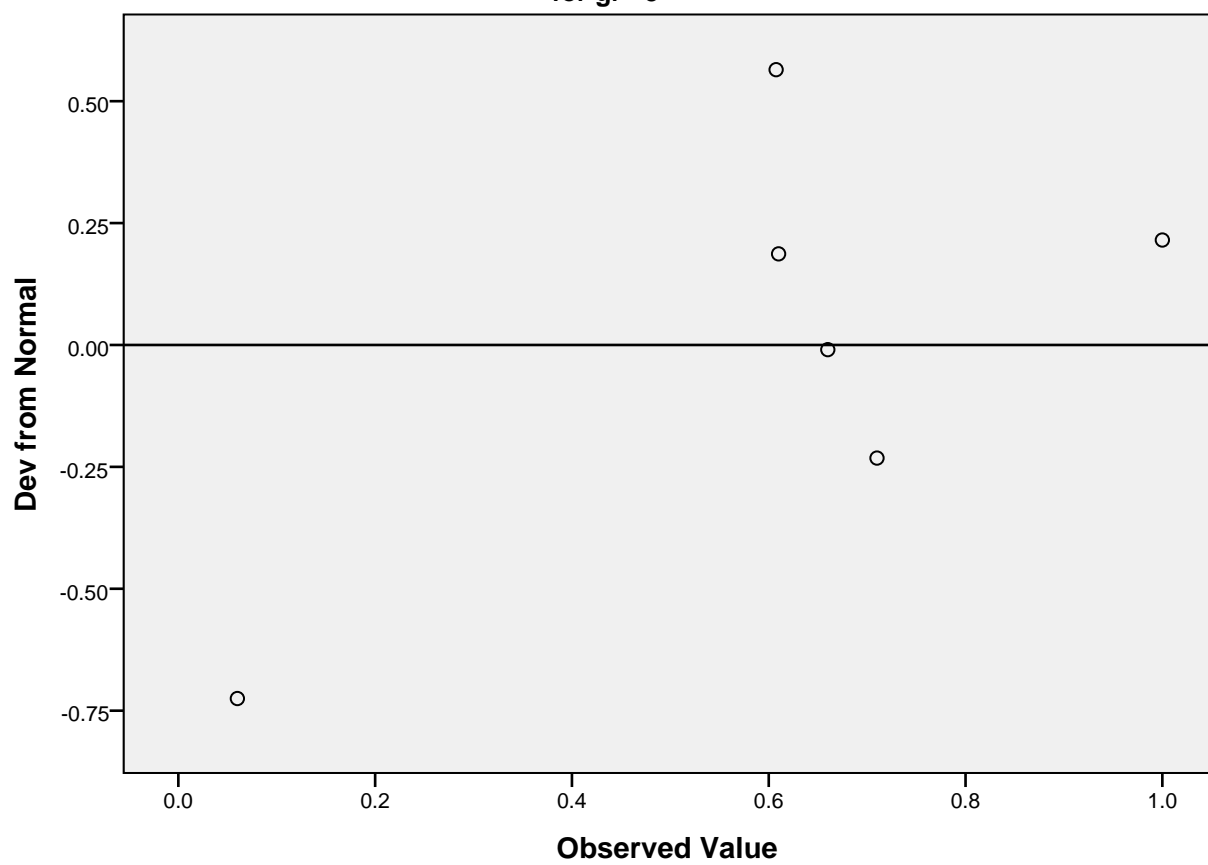
for gr= 1

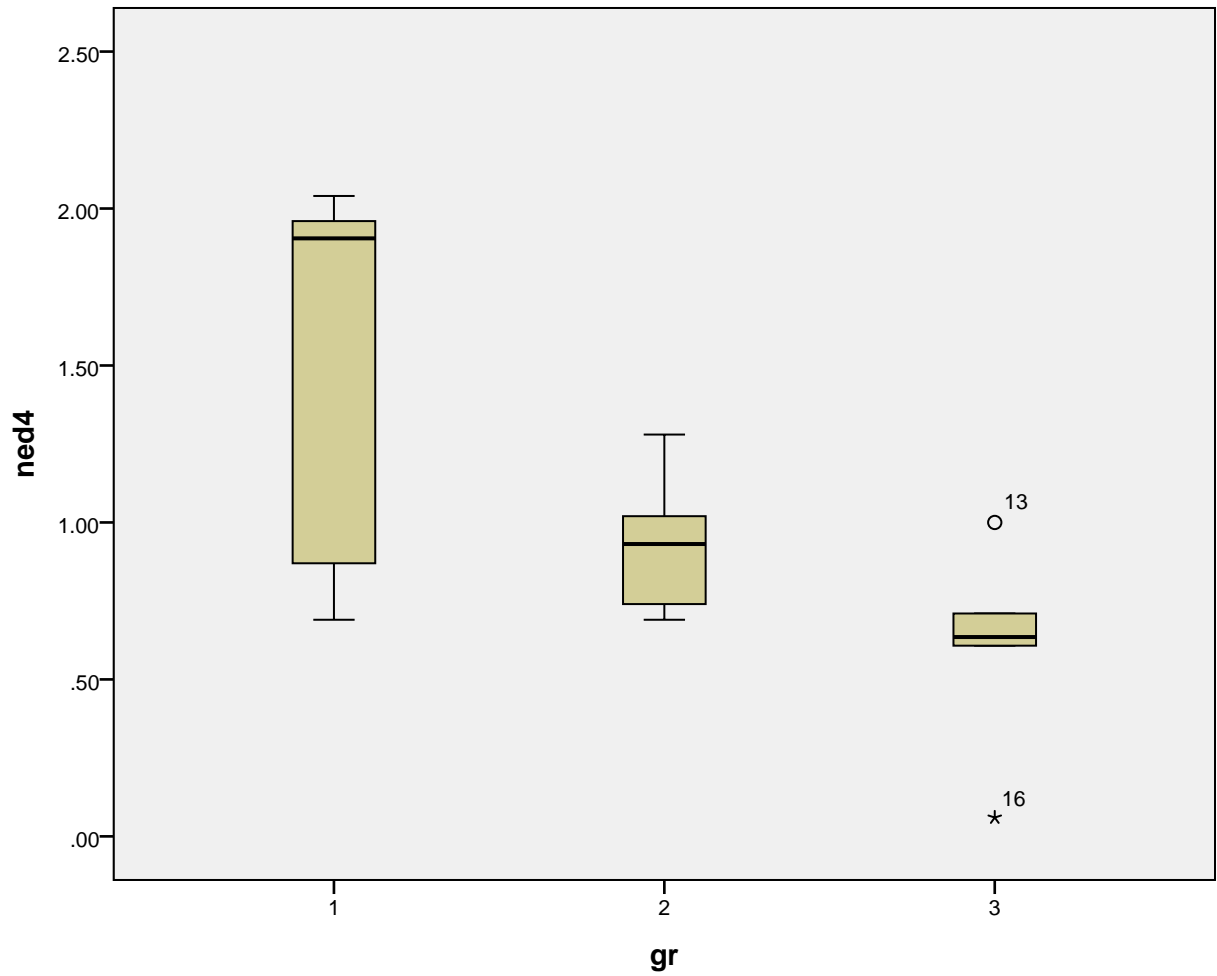




Detrended Normal Q-Q Plot of ned4

for gr= 3





ned8

Stem-and-Leaf Plots

ned8 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
2.00	1 .	13
2.00	1 .	79
2.00	2 .	11

Stem width: 1.00
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
2.00	1 .	79
2.00	2 .	44
1.00	2 .	5
1.00	Extremes	(>=3.4)

Stem width: 1.00
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 3

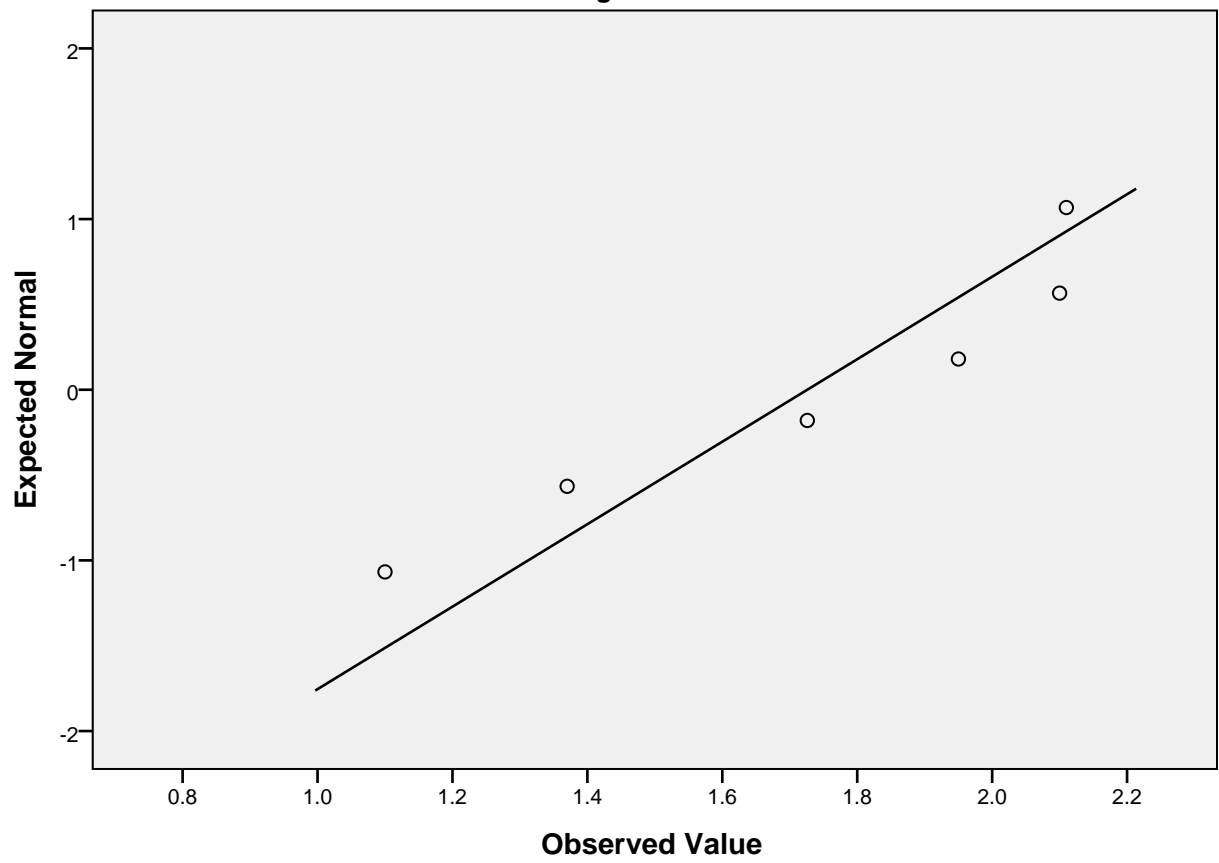
Frequency	Stem &	Leaf
2.00	-3 .	02
2.00	-2 .	78
1.00	-2 .	4
1.00	Extremes	(>=-1.5)

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

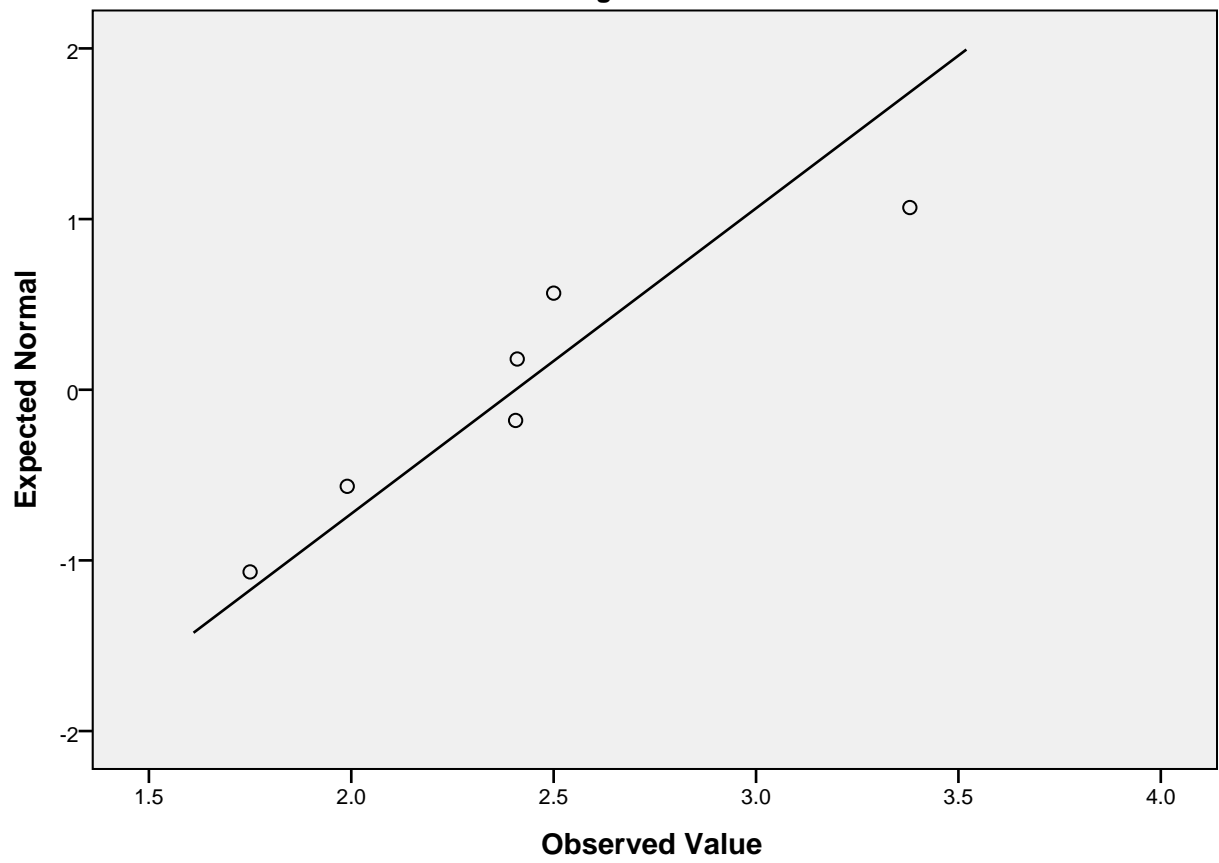
Normal Q-Q Plot of ned8

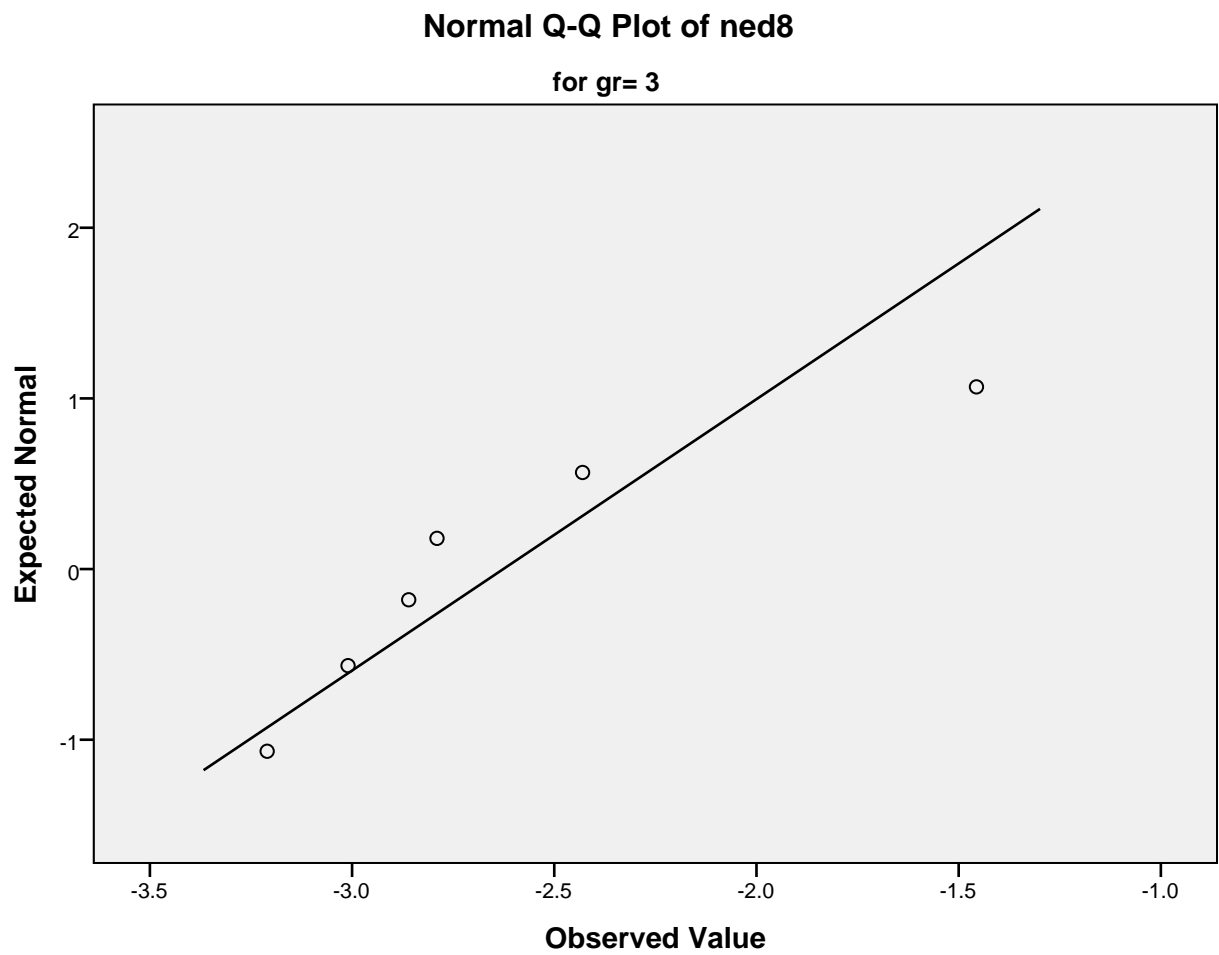
for gr= 1



Normal Q-Q Plot of ned8

for gr= 2

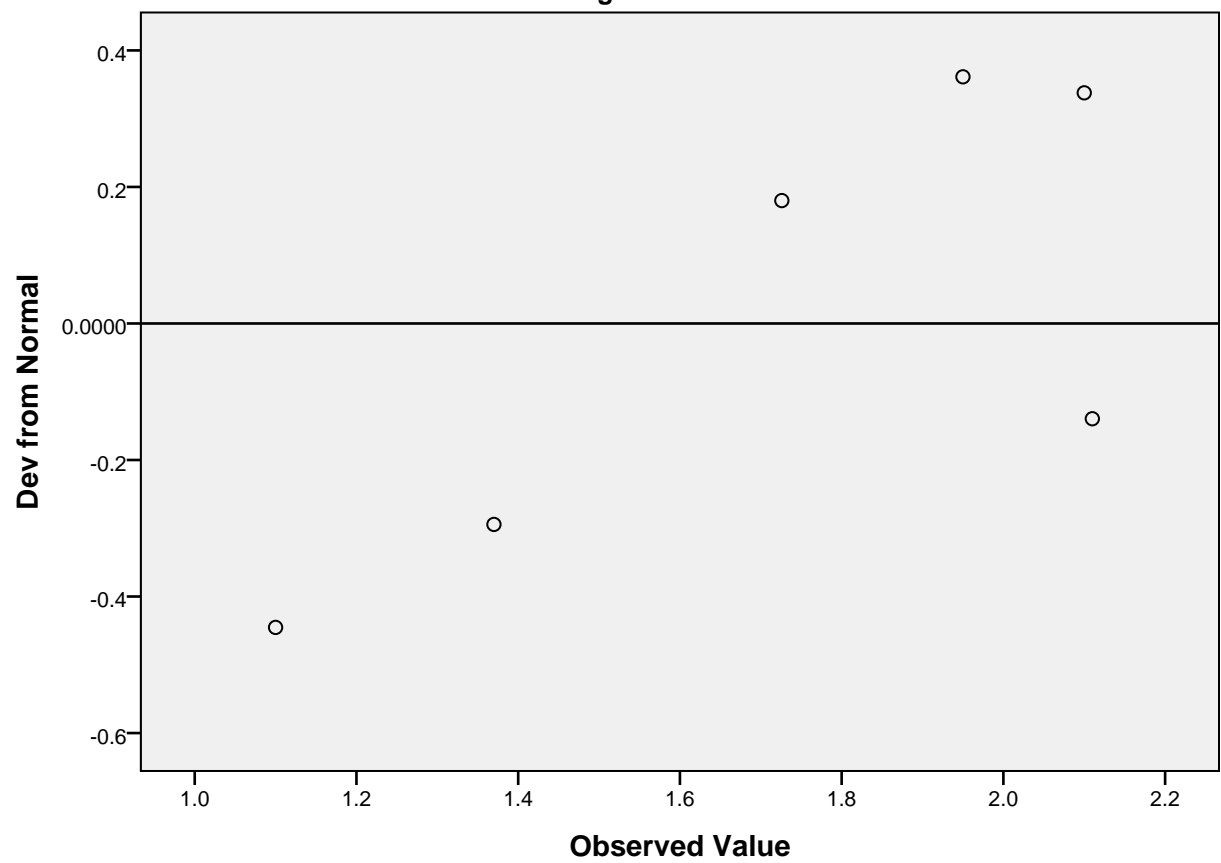




Detrended Normal Q-Q Plots

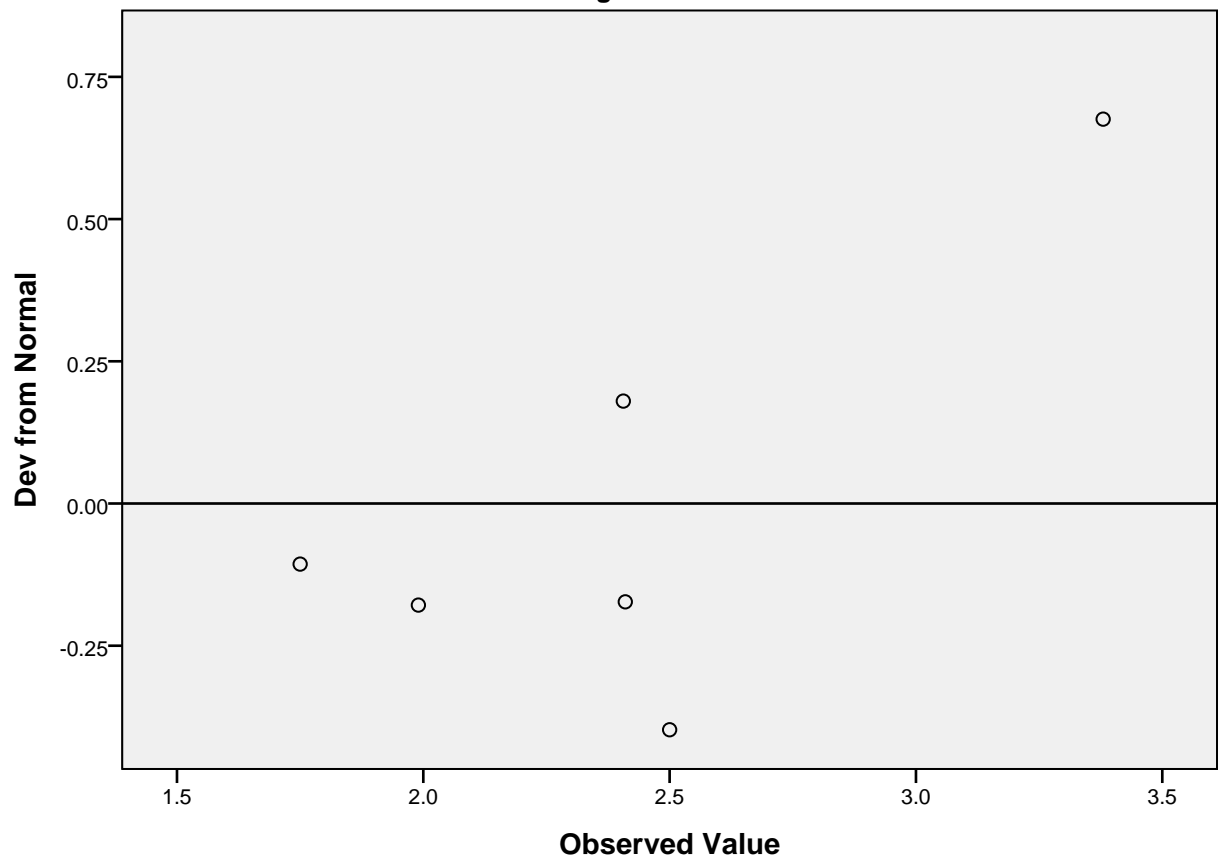
Detrended Normal Q-Q Plot of ned8

for gr= 1



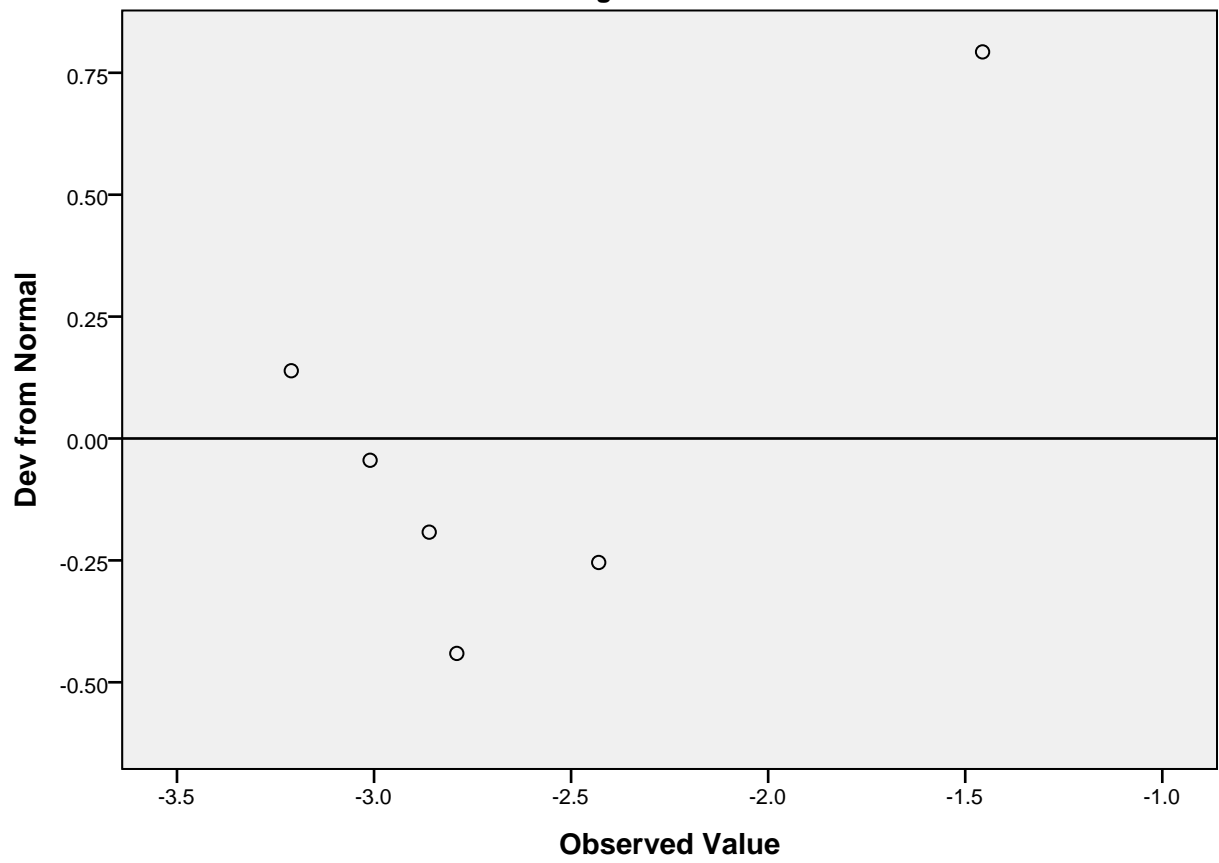
Detrended Normal Q-Q Plot of ned8

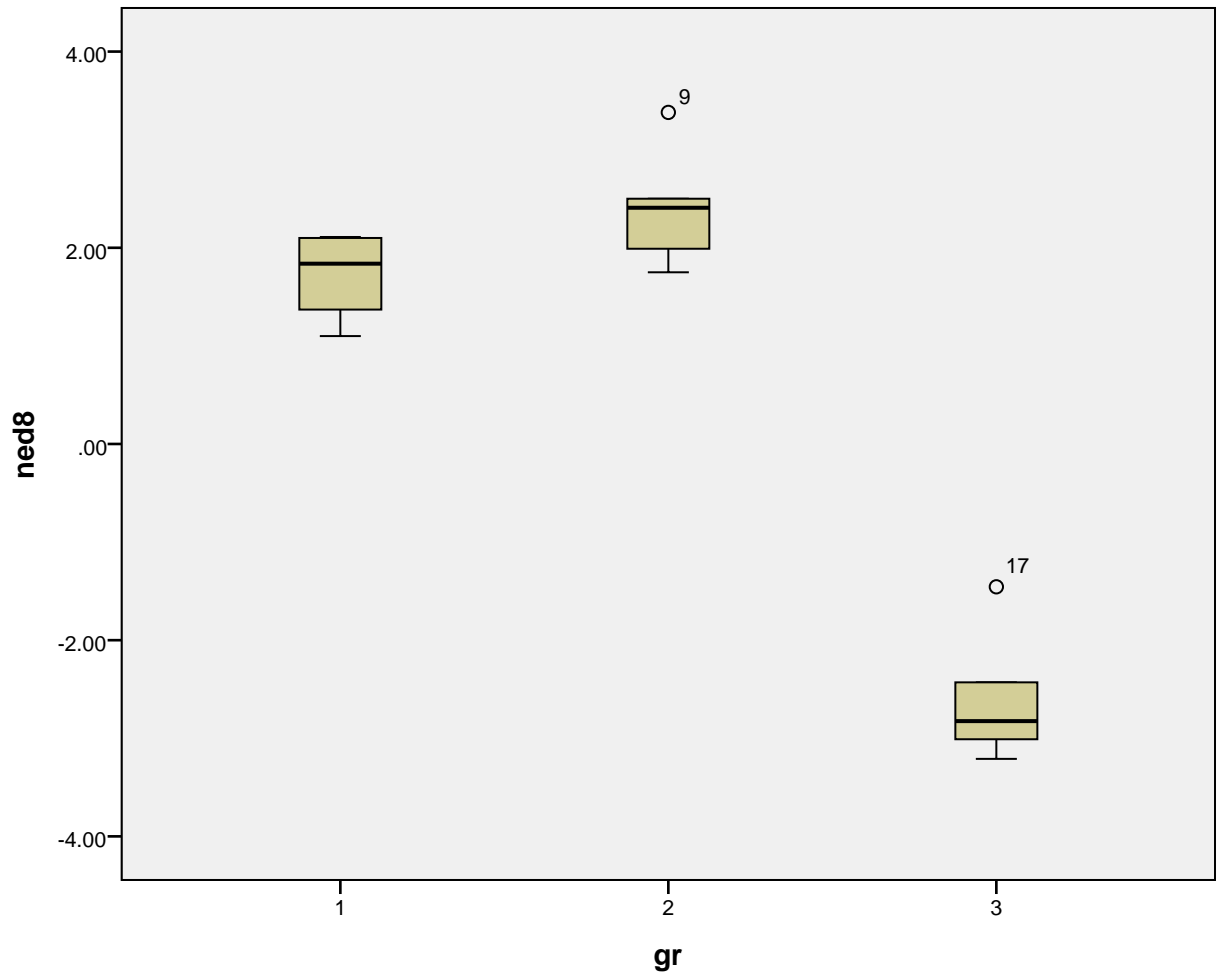
for gr= 2



Detrended Normal Q-Q Plot of ned8

for gr= 3





```
NPAR TESTS  
  /K-W=ned1 ned2 ned4 ned8 BY gr(1 3)  
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 22:53:32
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /K-W=ned1 ned2 ned4 ned8 BY gr (1 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.003
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet2]

Kruskal-Wallis Test

Ranks

gr		N	Mean Rank
ned1	1	6	9.50
	2	6	15.50
	3	6	3.50
	Total	18	
ned2	1	6	5.67
	2	6	15.50
	3	6	7.33
	Total	18	
ned4	1	6	13.42
	2	6	10.25
	3	6	4.83
	Total	18	
ned8	1	6	10.33
	2	6	14.67
	3	6	3.50
	Total	18	

Test Statistics^{a,b}

	ned1	ned2	ned4	ned8
Chi-Square	15.174	11.673	7.941	13.345
df	2	2	2	2
Asymp. Sig.	.001	.003	.019	.001

a. Kruskal Wallis Test
b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 2)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 22:53:57
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (1 2) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.005
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet2]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		
ned2	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		
ned4	1	6	7.92	47.50
	2	6	5.08	30.50
	Total	12		
ned8	1	6	4.33	26.00
	2	6	8.67	52.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	.000	.000	9.500	5.000
Wilcoxon W	21.000	21.000	30.500	26.000
Z	-2.887	-2.882	-1.363	-2.082
Asymp. Sig. (2-tailed)	.004	.004	.173	.037
Exact Sig. [2*(1-tailed Sig.)]	.002 ^a	.002 ^a	.180 ^a	.041 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 3)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 22:54:25
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr(1 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.015
	Elapsed Time	00 00:00:00.009
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet2]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned2	1	6	5.67	34.00
	3	6	7.33	44.00
	Total	12		
ned4	1	6	9.00	54.00
	3	6	4.00	24.00
	Total	12		
ned8	1	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	.000	13.000	3.000	.000
Wilcoxon W	21.000	34.000	24.000	21.000
Z	-2.887	-.802	-2.402	-2.882
Asymp. Sig. (2-tailed)	.004	.423	.016	.004
Exact Sig. [2*(1-tailed Sig.)]	.002 ^a	.485 ^a	.015 ^a	.002 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

/M-W= ned1 ned2 ned4 ned8 BY gr(2 3)

/MISSING ANALYSIS.

NPar Tests

Notes

Output Created		11-Apr-2016 22:54:50
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (2 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.003
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet2]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned2	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned4	2	6	8.67	52.00
	3	6	4.33	26.00
	Total	12		
ned8	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	.000	.000	5.000	.000
Wilcoxon W	21.000	21.000	26.000	21.000
Z	-2.882	-2.887	-2.082	-2.882
Asymp. Sig. (2-tailed)	.004	.004	.037	.004
Exact Sig. [2*(1-tailed Sig.)]	.002 ^a	.002 ^a	.041 ^a	.002 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

```

GET DATA
  /TYPE=XLS
  /FILE='C:\Users\vlada\Desktop\jelena rad #3\output poredjenje grupa JN.xls'
  /SHEET=name 'Flt-1'
  /CELLRANGE=full
  /READNAMES=on
  /ASSUMEDSTRWIDTH=32767.
EXECUTE.
DATASET NAME DataSet1 WINDOW=FRONT.
EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr
  /PLOT BOXPLOT STEMLEAF NPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.

```

Explore

Notes

Output Created		11-Apr-2016 23:03:07
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00 00:00:05.850
	Elapsed Time	00 00:00:04.684

[DataSet1]

gr

Case Processing Summary

gr		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
ned1	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned2	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned4	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned8	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%

Descriptives

gr			Statistic	Std. Error
ned1	1	Mean	3.3121	.08754
		95% Confidence Interval for Mean	Lower Bound 3.0871 Upper Bound 3.5371	
		5% Trimmed Mean	3.3140	
		Median	3.3113	
		Variance	.046	
		Std. Deviation	.21442	
		Minimum	3.03	
		Maximum	3.56	
		Range	.53	
		Interquartile Range	.45	
		Skewness	-.075	.845
		Kurtosis	-1.558	1.741
	2	Mean	3.8158	.11365
		95% Confidence Interval for Mean	Lower Bound 3.5237 Upper Bound 4.1080	
		5% Trimmed Mean	3.8176	
		Median	3.8175	
		Variance	.078	
		Std. Deviation	.27840	
		Minimum	3.38	
		Maximum	4.22	
		Range	.84	
		Interquartile Range	.41	
		Skewness	-.213	.845
		Kurtosis	1.135	1.741

Descriptives

gr			Statistic	Std. Error
ned1	3	Mean	2.6358	.17171
		95% Confidence Interval for Mean	Lower Bound Upper Bound	2.1944 3.0772
		5% Trimmed Mean	2.6459	
		Median	2.6375	
		Variance	.177	
		Std. Deviation	.42060	
		Minimum	1.94	
		Maximum	3.15	
		Range	1.21	
		Interquartile Range	.67	
		Skewness	-.675	.845
		Kurtosis	.849	1.741
ned2	1	Mean	3.144	.1231
		95% Confidence Interval for Mean	Lower Bound Upper Bound	2.828 3.460
		5% Trimmed Mean	3.141	
		Median	3.122	
		Variance	.091	
		Std. Deviation	.3015	
		Minimum	2.8	
		Maximum	3.5	
		Range	.7	
		Interquartile Range	.7	
		Skewness	.198	.845
		Kurtosis	-1.759	1.741

Descriptives

gr				Statistic	Std. Error
ned2	2	Mean		4.548	.1059
		95% Confidence Interval for Mean	Lower Bound	4.276	
			Upper Bound	4.820	
		5% Trimmed Mean		4.545	
		Median		4.549	
		Variance		.067	
		Std. Deviation		.2595	
		Minimum		4.3	
		Maximum		4.9	
		Range		.6	
		Interquartile Range		.5	
		Skewness		.081	.845
		Kurtosis		-1.566	1.741
	3	Mean		3.562	.5076
		95% Confidence Interval for Mean	Lower Bound	2.257	
			Upper Bound	4.867	
		5% Trimmed Mean		3.497	
		Median		3.480	
		Variance		1.546	
		Std. Deviation		1.2434	
		Minimum		2.4	
		Maximum		5.9	
		Range		3.5	
		Interquartile Range		1.6	
		Skewness		1.547	.845
		Kurtosis		3.015	1.741

Descriptives

gr			Statistic	Std. Error
ned4	1	Mean	3.873	.1245
		95% Confidence Interval for Mean	Lower Bound Upper Bound	3.553 4.193
		5% Trimmed Mean	3.890	
		Median	3.960	
		Variance	.093	
		Std. Deviation	.3049	
		Minimum	3.3	
		Maximum	4.1	
		Range	.8	
		Interquartile Range	.4	
		Skewness	-1.683	.845
		Kurtosis	3.075	1.741
	2	Mean	4.366	.1825
		95% Confidence Interval for Mean	Lower Bound Upper Bound	3.897 4.835
		5% Trimmed Mean	4.356	
		Median	4.328	
		Variance	.200	
		Std. Deviation	.4470	
		Minimum	3.8	
		Maximum	5.2	
		Range	1.4	
		Interquartile Range	.4	
		Skewness	.867	.845
		Kurtosis	2.747	1.741

Descriptives

gr				Statistic	Std. Error
ned4	3	Mean		4.060	.2556
		95% Confidence Interval for Mean	Lower Bound	3.403	
			Upper Bound	4.717	
		5% Trimmed Mean		4.056	
		Median		4.035	
		Variance		.392	
		Std. Deviation		.6261	
		Minimum		3.2	
		Maximum		5.0	
		Range		1.9	
		Interquartile Range		.9	
		Skewness		.216	.845
		Kurtosis		.868	
		ned8	1	Mean	
95% Confidence Interval for Mean	Lower Bound			3.3503	
	Upper Bound			4.1977	
5% Trimmed Mean				3.7856	
Median				3.8870	
Variance				.163	
Std. Deviation				.40371	
Minimum				3.19	
Maximum				4.15	
Range				.96	
Interquartile Range				.80	
Skewness				-.648	.845
Kurtosis				-1.544	

Descriptives

gr				Statistic	Std. Error
ned8	2	Mean		3.6180	.35042
		95% Confidence Interval for Mean	Lower Bound	2.7172	
			Upper Bound	4.5188	
		5% Trimmed Mean		3.5994	
		Median		3.5640	
		Variance		.737	
		Std. Deviation		.85836	
		Minimum		2.45	
		Maximum		5.12	
		Range		2.67	
		Interquartile Range		.84	
		Skewness		.845	
		Kurtosis		2.717	
					1.741
	3	Mean		3.8780	.05839
		95% Confidence Interval for Mean	Lower Bound	3.7279	
			Upper Bound	4.0281	
		5% Trimmed Mean		3.8856	
		Median		3.8900	
		Variance		.020	
		Std. Deviation		.14302	
		Minimum		3.61	
		Maximum		4.01	
		Range		.40	
		Interquartile Range		.18	
		Skewness		-1.593	
		Kurtosis		3.151	
					1.741

Tests of Normality

gr	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ned1	1	6	.200 *	.916	6	.477
	2	6	.200 *	.971	6	.901
	3	6	.200 *	.949	6	.729
ned2	1	6	.200 *	.893	6	.336
	2	6	.200 *	.902	6	.389
	3	6	.036	.826	6	.099
ned4	1	6	.200 *	.837	6	.123
	2	6	.040	.868	6	.219
	3	6	.200 *	.984	6	.969
ned8	1	6	.200 *	.882	6	.278
	2	6	.037	.871	6	.228
	3	6	.036	.824	6	.096

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

ned1

Stem-and-Leaf Plots

ned1 Stem-and-Leaf Plot for
gr= 1

```

Frequency      Stem & Leaf

      4.00      3 . 0133
      2.00      3 . 55

Stem width:      1.00
Each leaf:      1 case(s)

```

ned1 Stem-and-Leaf Plot for
gr= 2

```

Frequency      Stem & Leaf

      1.00      3 . 3
      4.00      3 . 7889

```

```
1.00      4 .  2
```

```
Stem width:      1.00
```

```
Each leaf:      1 case(s)
```

ned1 Stem-and-Leaf Plot for
gr= 3

```
Frequency      Stem & Leaf
```

```
1.00      1 .  9
```

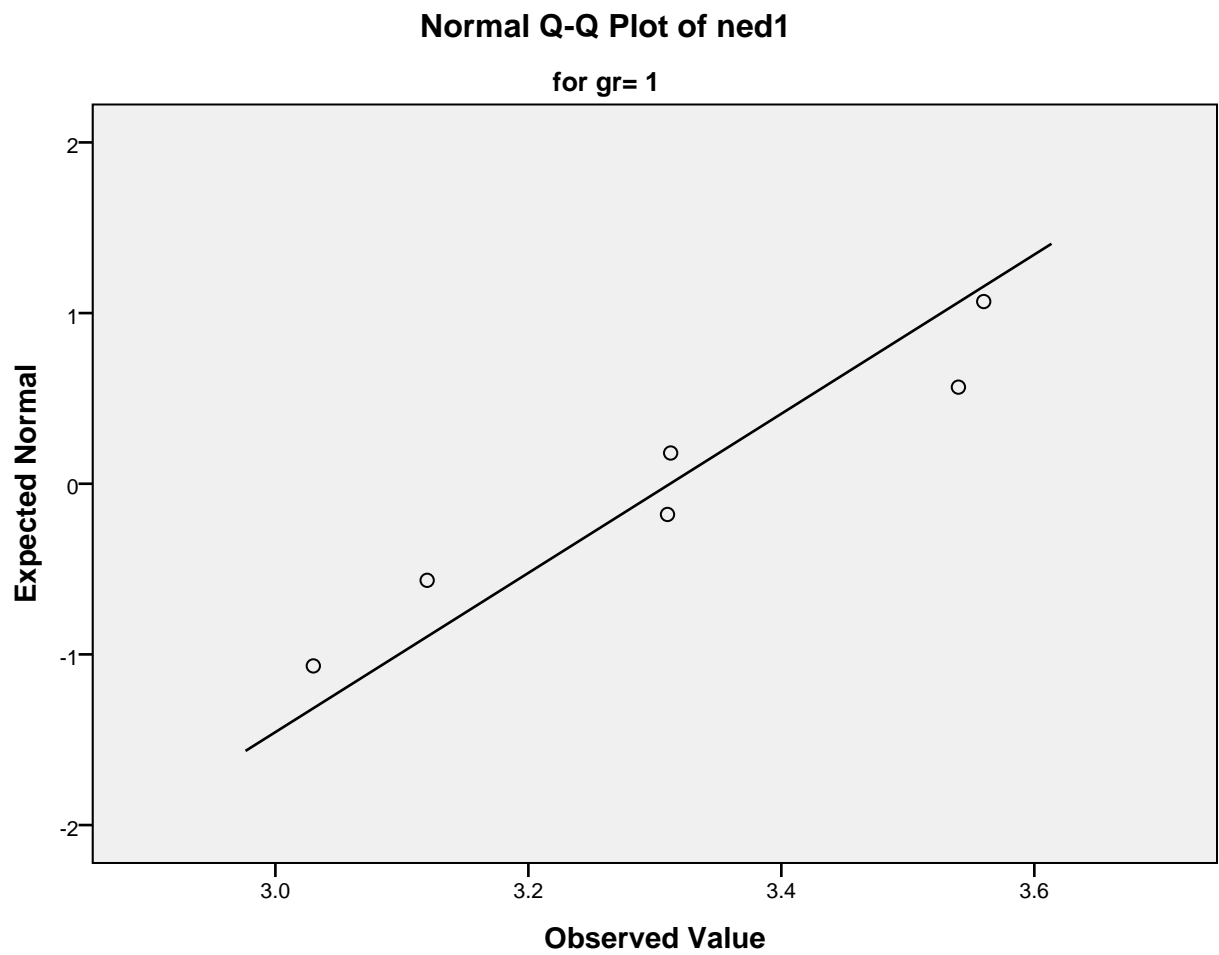
```
4.00      2 .  4669
```

```
1.00      3 .  1
```

```
Stem width:      1.00
```

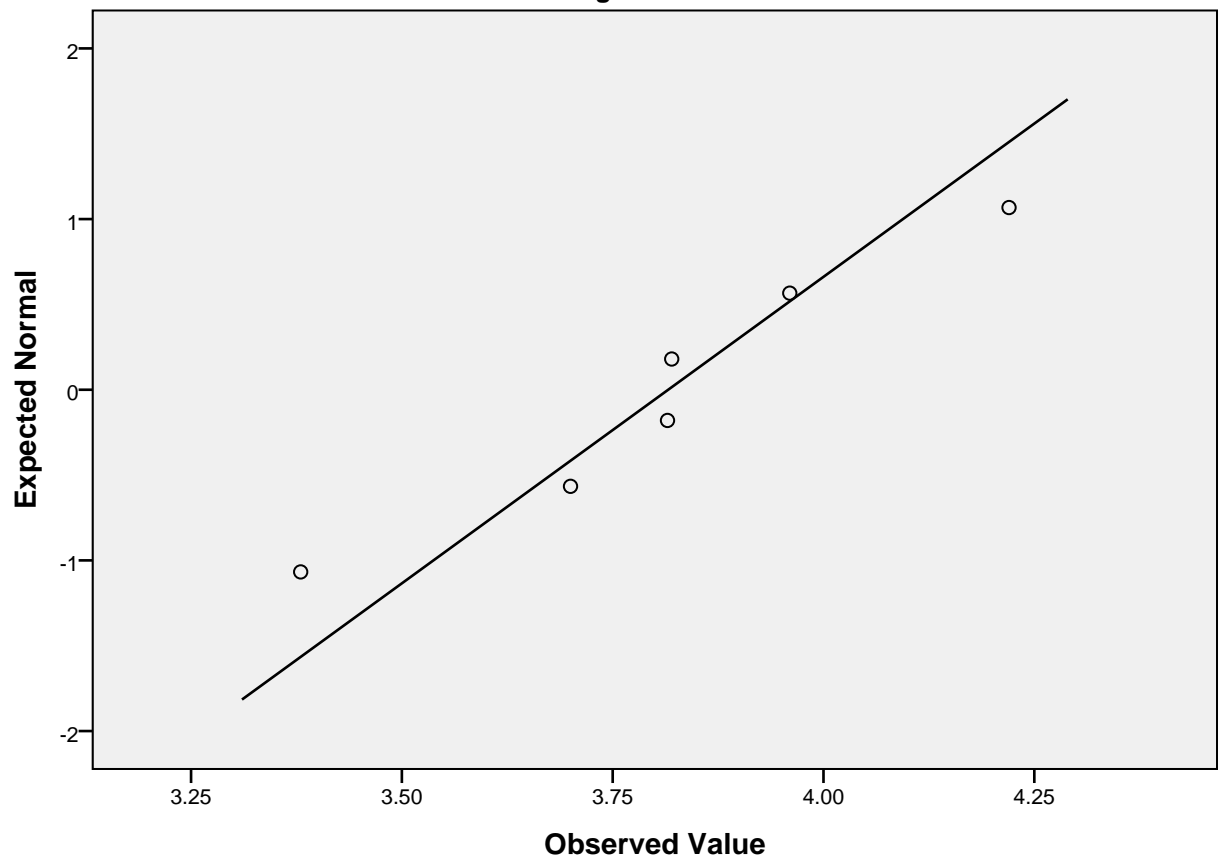
```
Each leaf:      1 case(s)
```

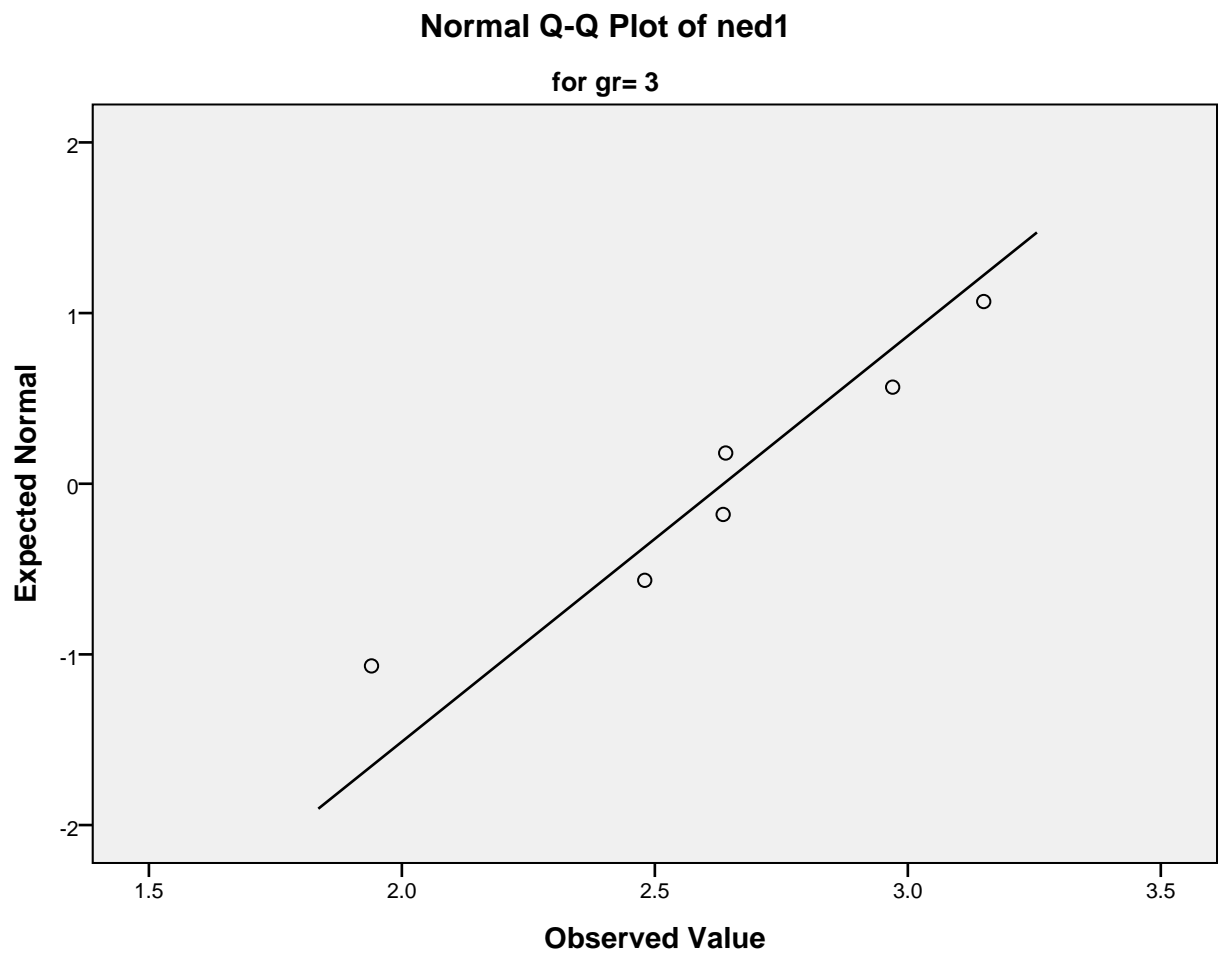
Normal Q-Q Plots



Normal Q-Q Plot of ned1

for gr= 2

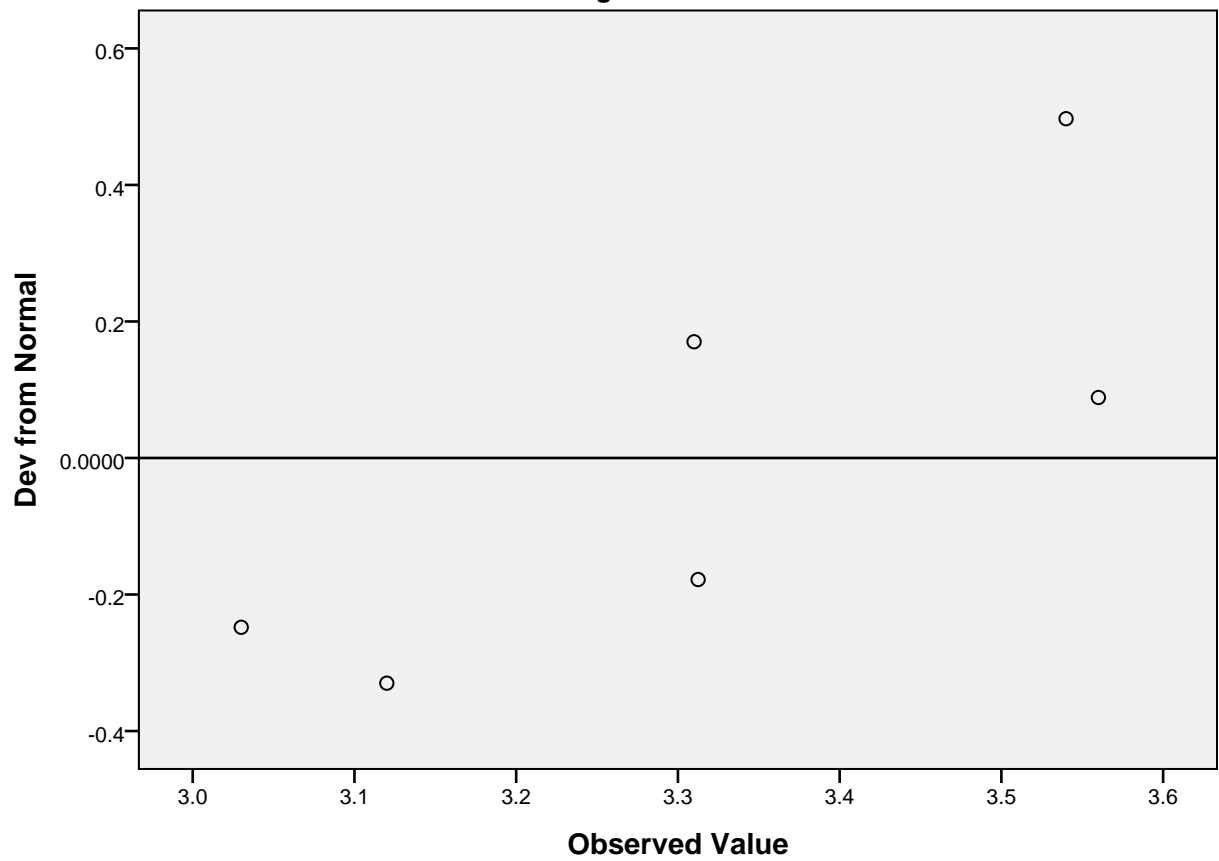


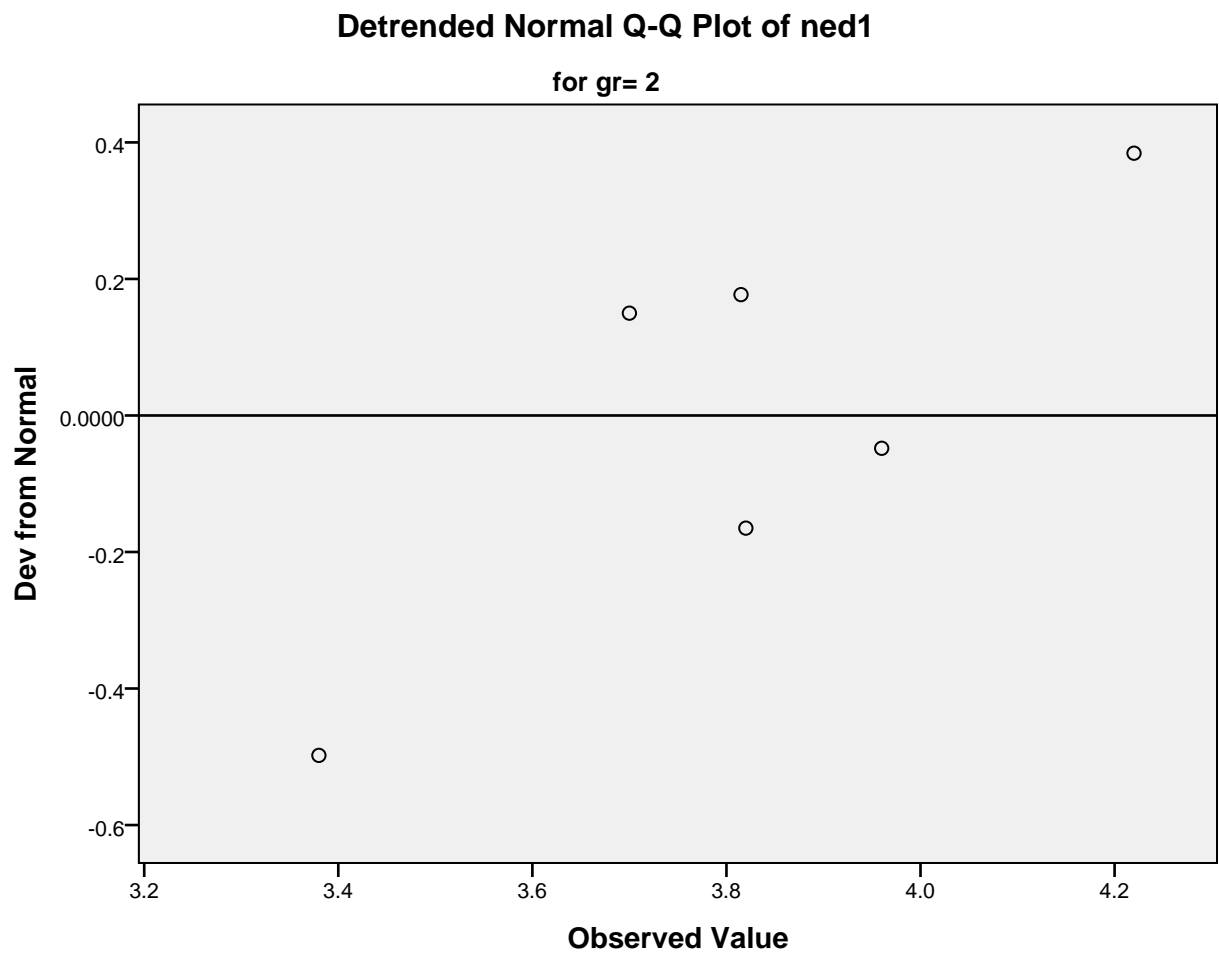


Detrended Normal Q-Q Plots

Detrended Normal Q-Q Plot of ned1

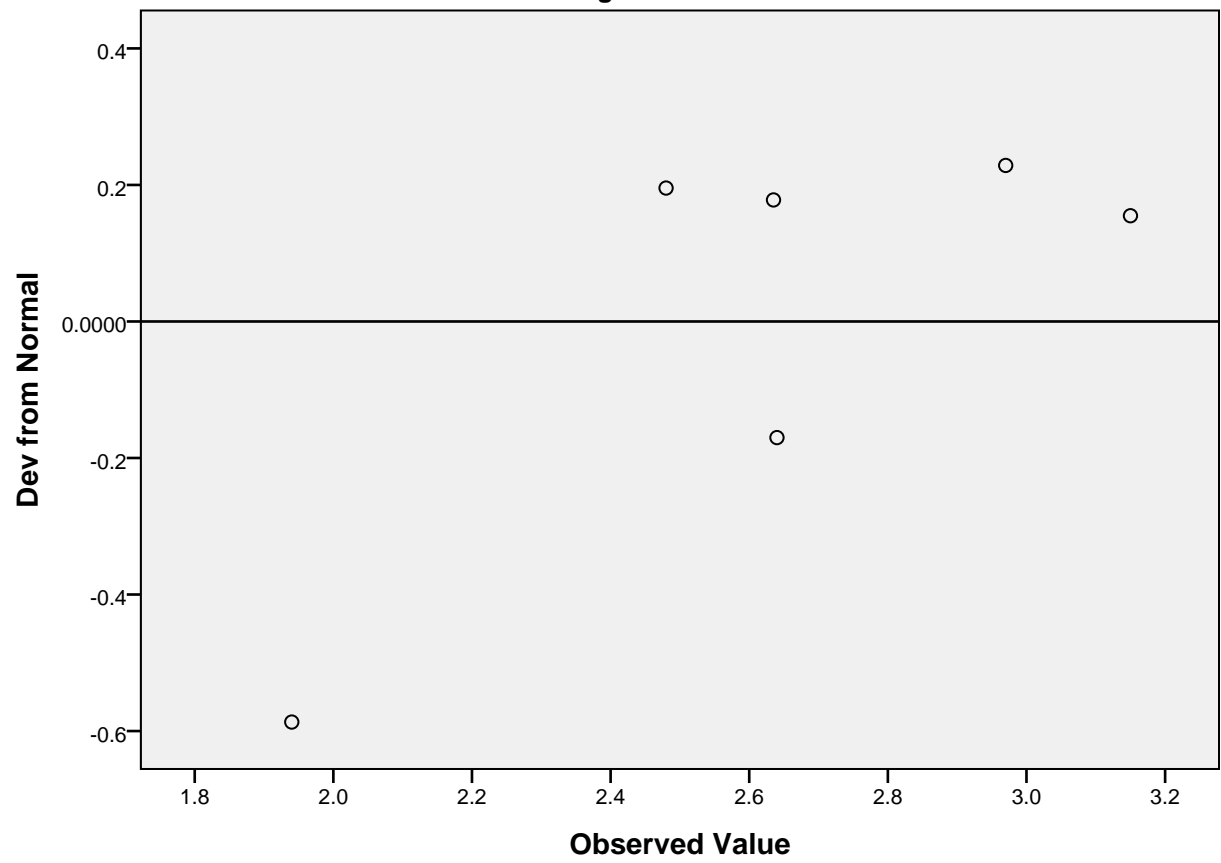
for gr= 1

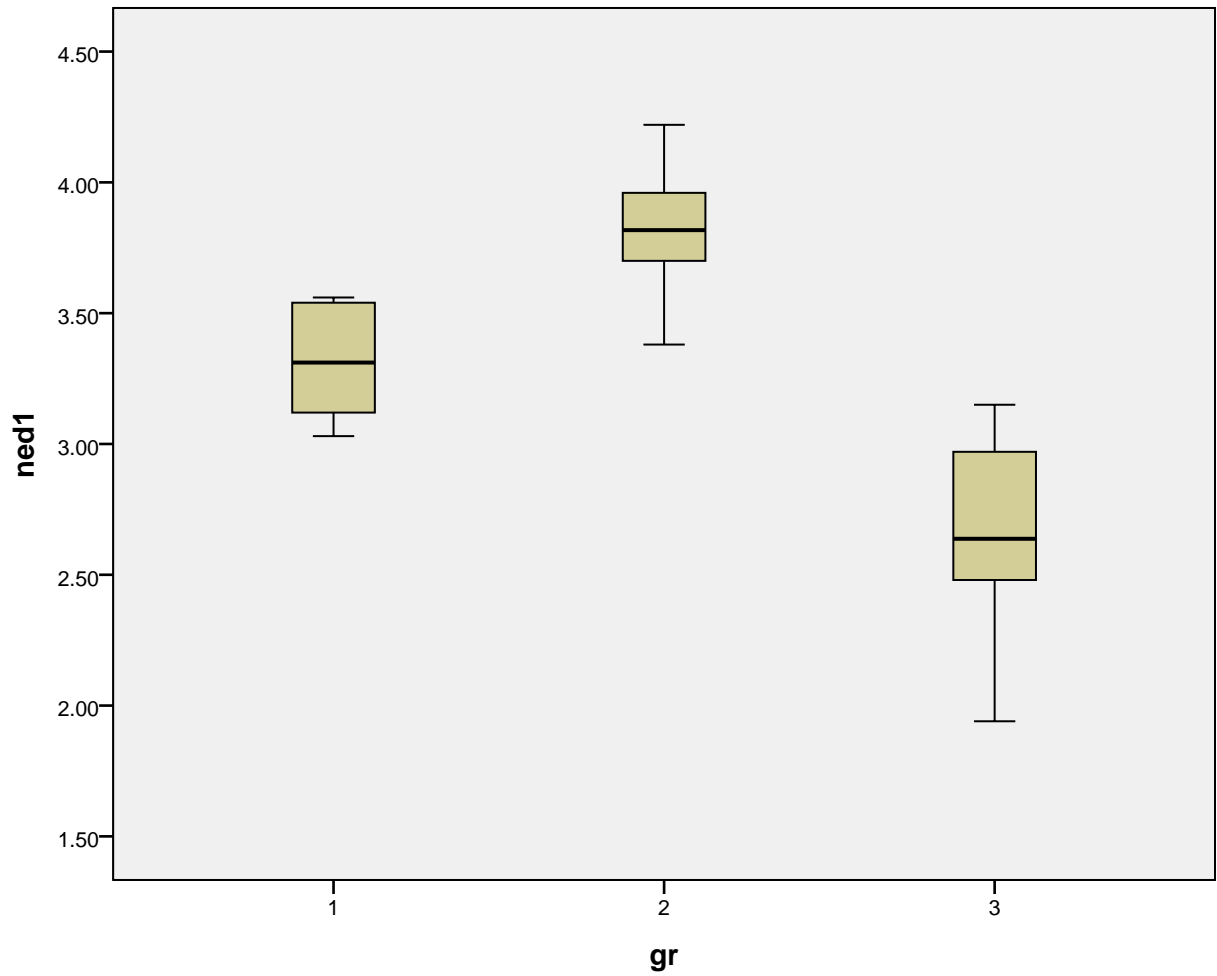




Detrended Normal Q-Q Plot of ned1

for gr= 3





ned2

Stem-and-Leaf Plots

ned2 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
2.00	2 .	88
3.00	3 .	114
1.00	3 .	5

Stem width: 1.0
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
2.00	4 .	22
4.00	4 .	5578

Stem width: 1.0
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 3

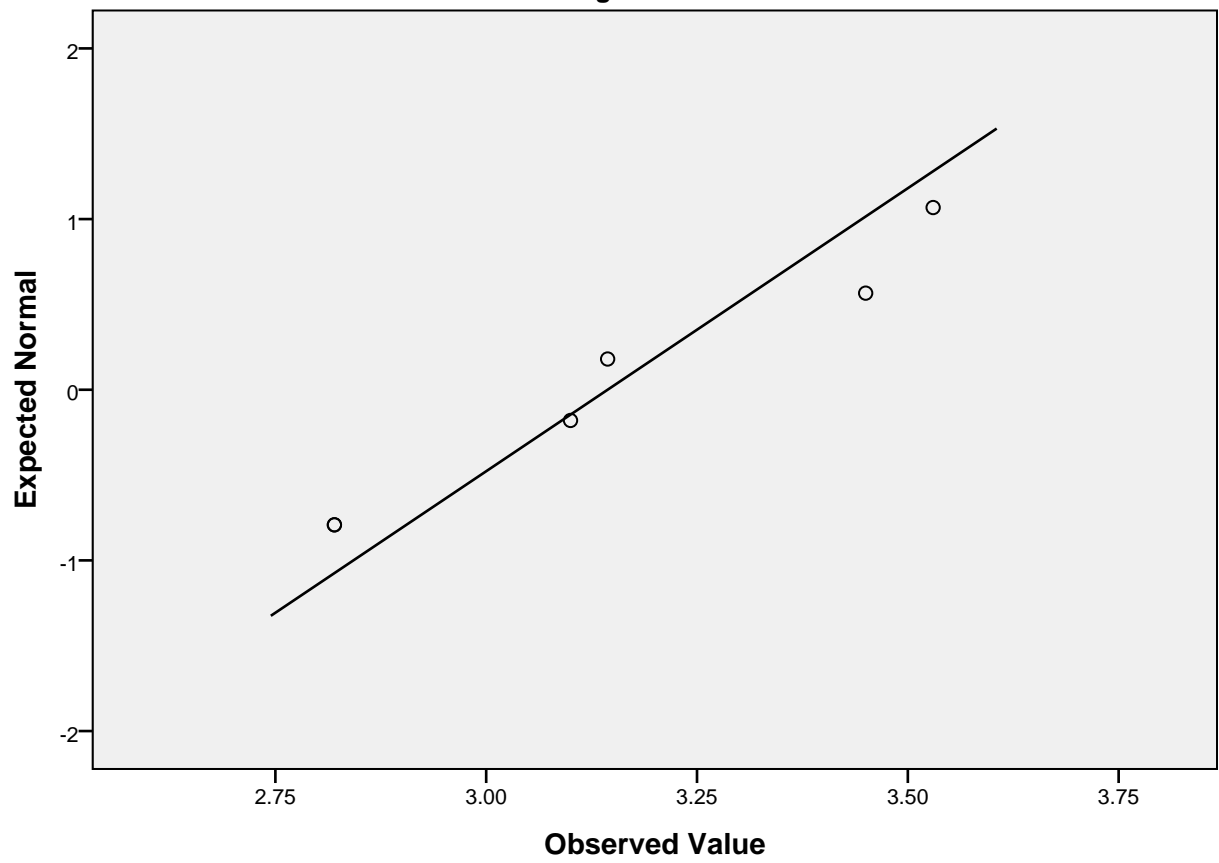
Frequency	Stem &	Leaf
1.00	2 .	4
1.00	2 .	5
1.00	3 .	4
2.00	3 .	55
1.00	Extremes	(>=5.9)

Stem width: 1.0
Each leaf: 1 case(s)

Normal Q-Q Plots

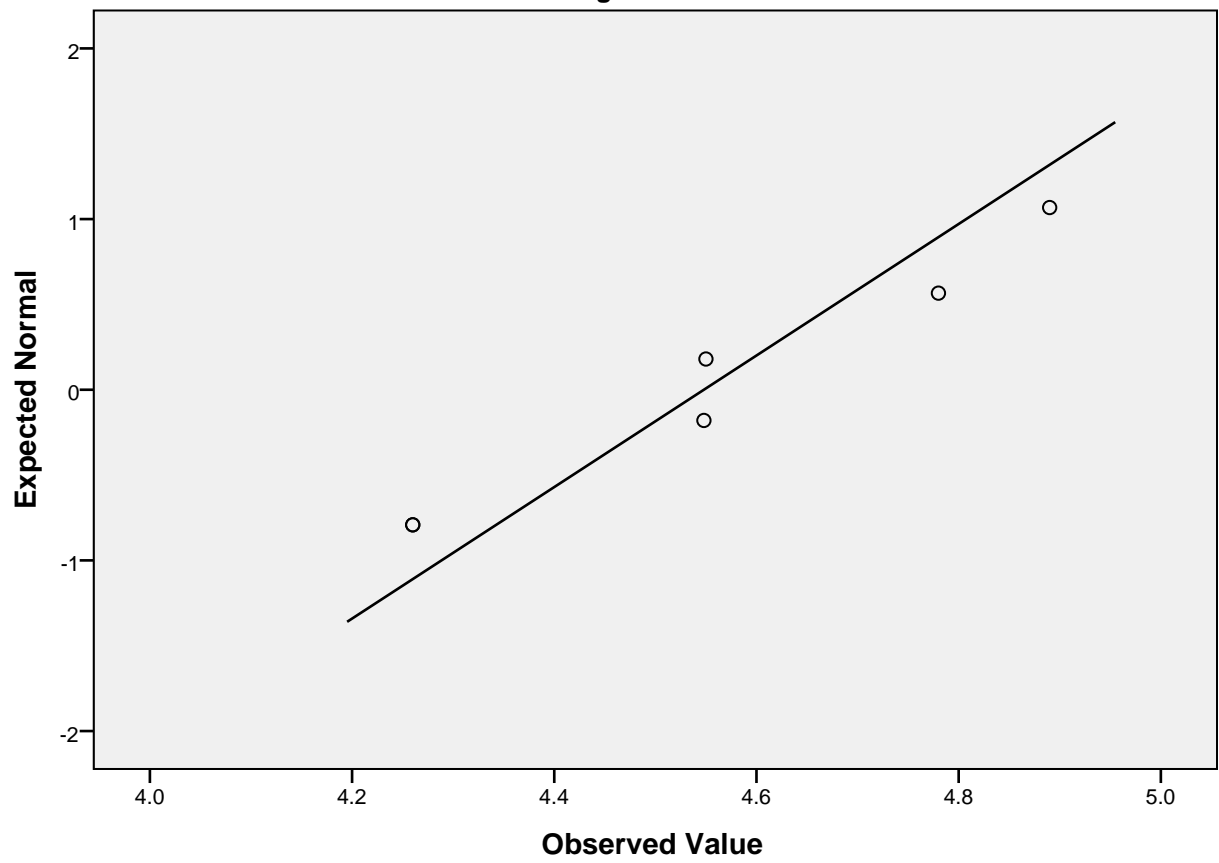
Normal Q-Q Plot of ned2

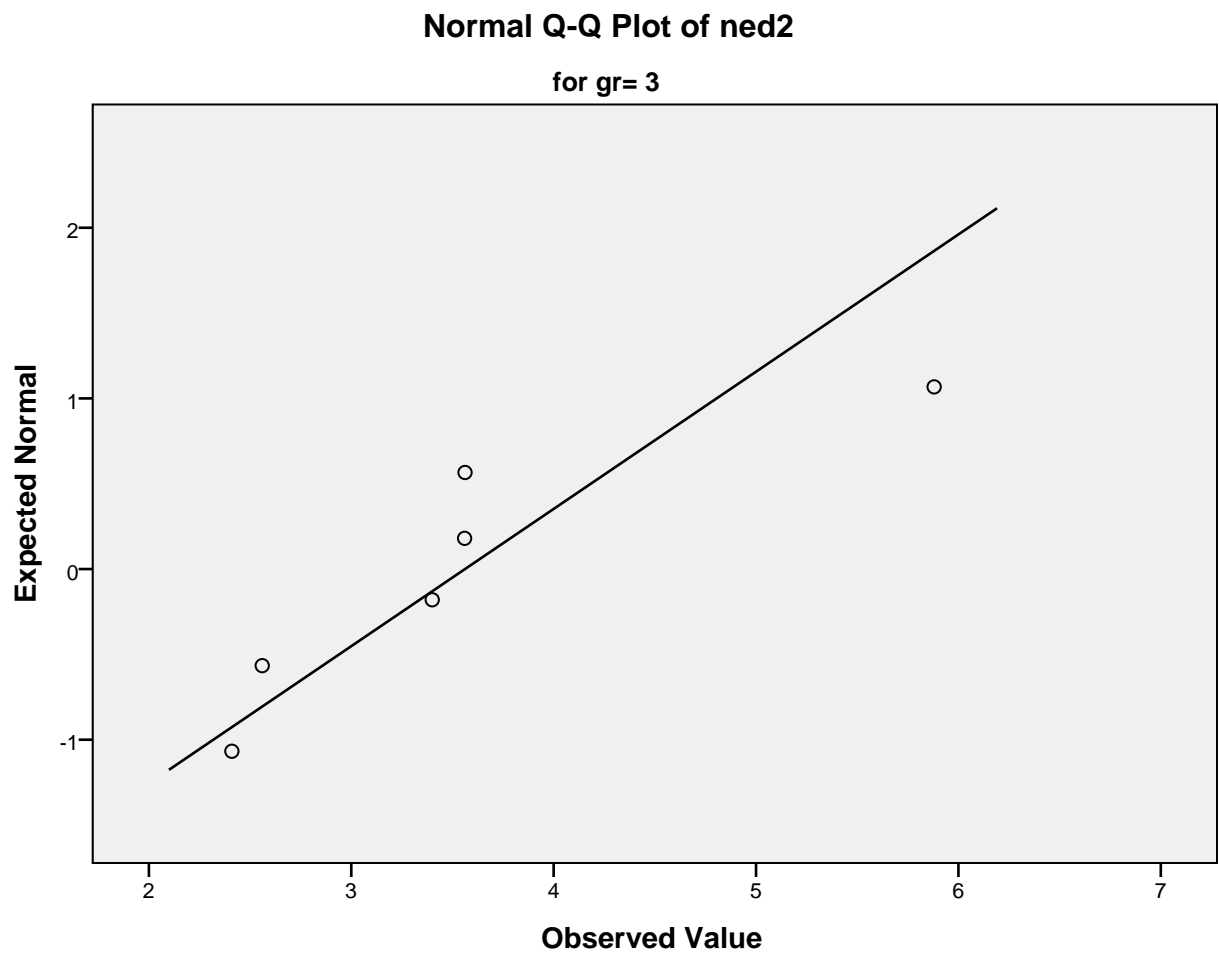
for gr= 1



Normal Q-Q Plot of ned2

for gr= 2

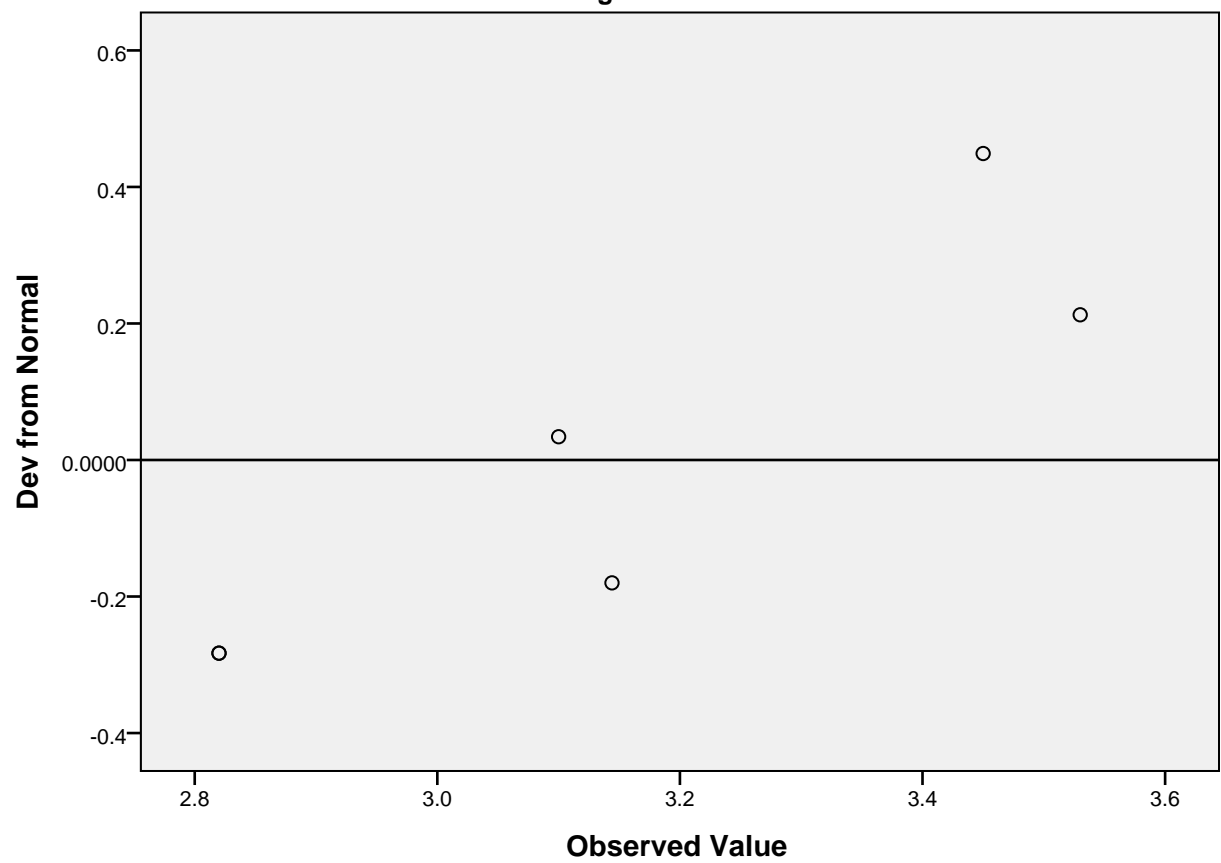


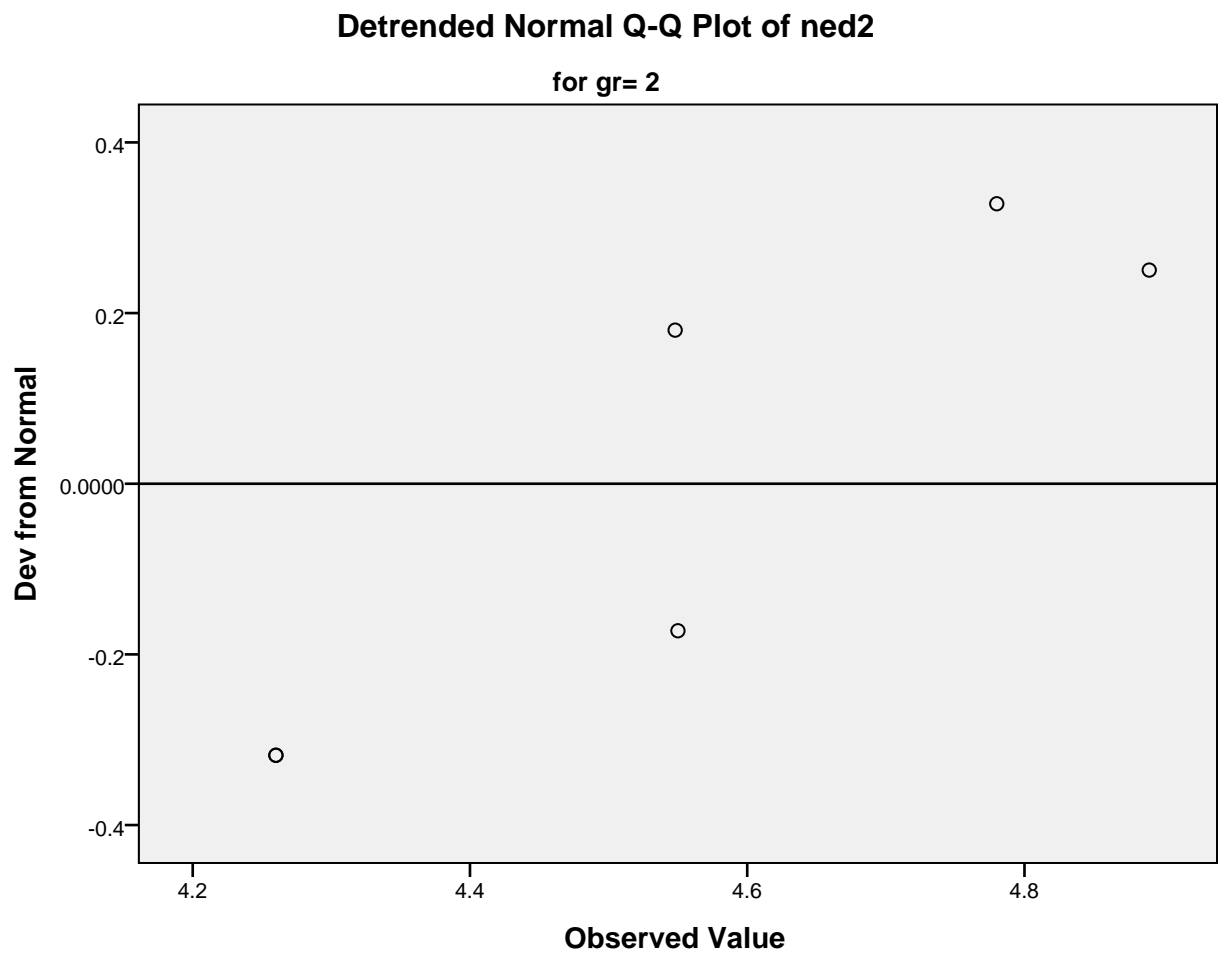


Detrended Normal Q-Q Plots

Detrended Normal Q-Q Plot of ned2

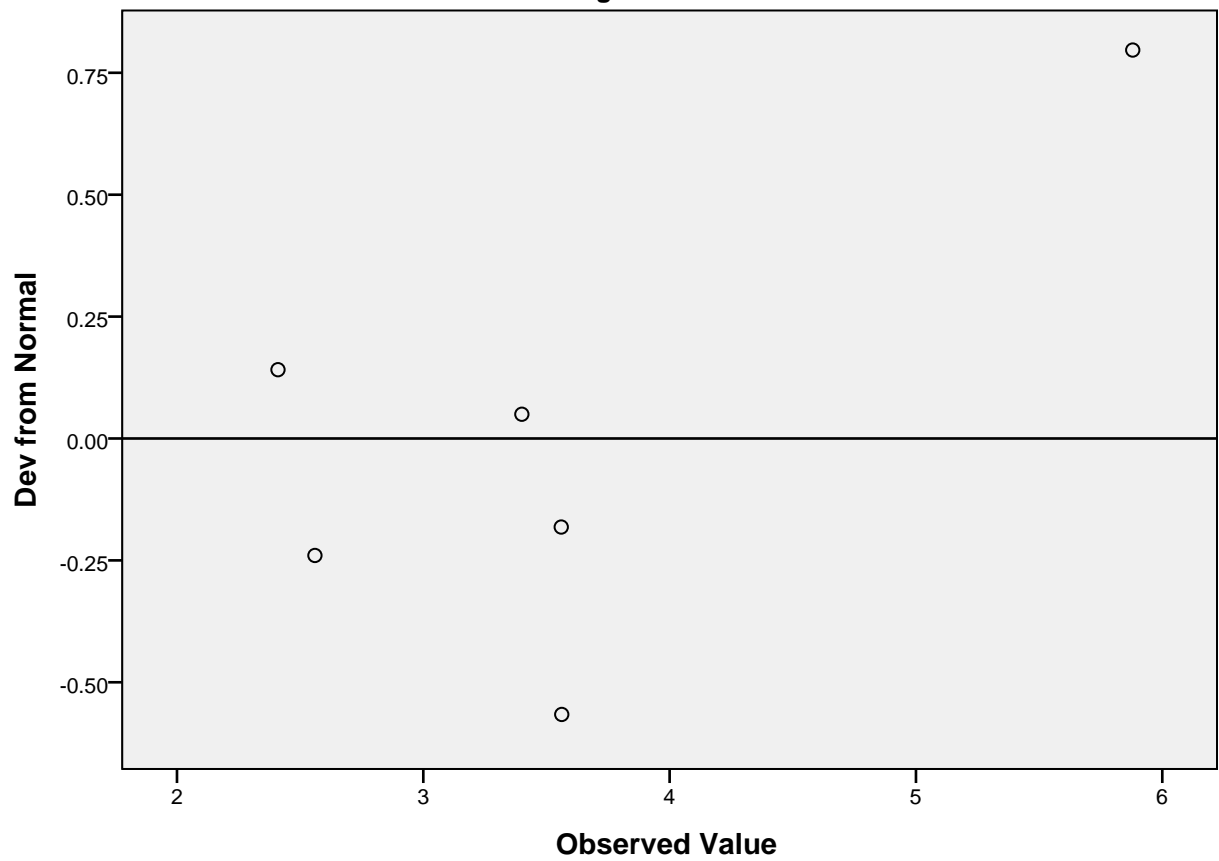
for gr= 1

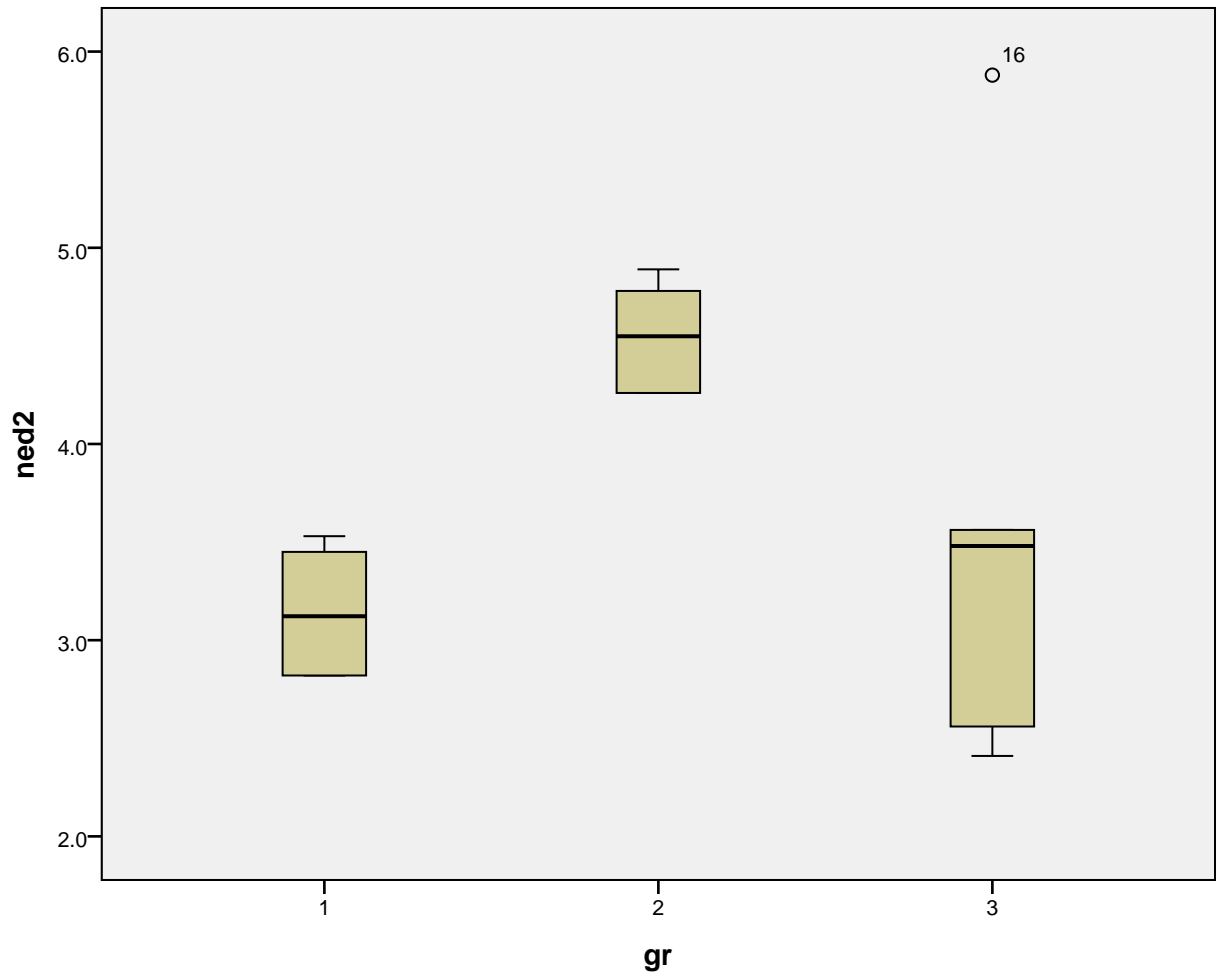




Detrended Normal Q-Q Plot of ned2

for gr= 3





ned4

Stem-and-Leaf Plots

ned4 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
1.00	Extremes	(=<3.30)
1.00	38 .	1
1.00	39 .	0
2.00	40 .	27
1.00	41 .	4

Stem width: .1
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	Extremes	(= 3.76)
2.00	42 .	69
.00	43 .	
2.00	43 .	67
1.00	Extremes	(≥ 5.15)

Stem width: .1
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 3

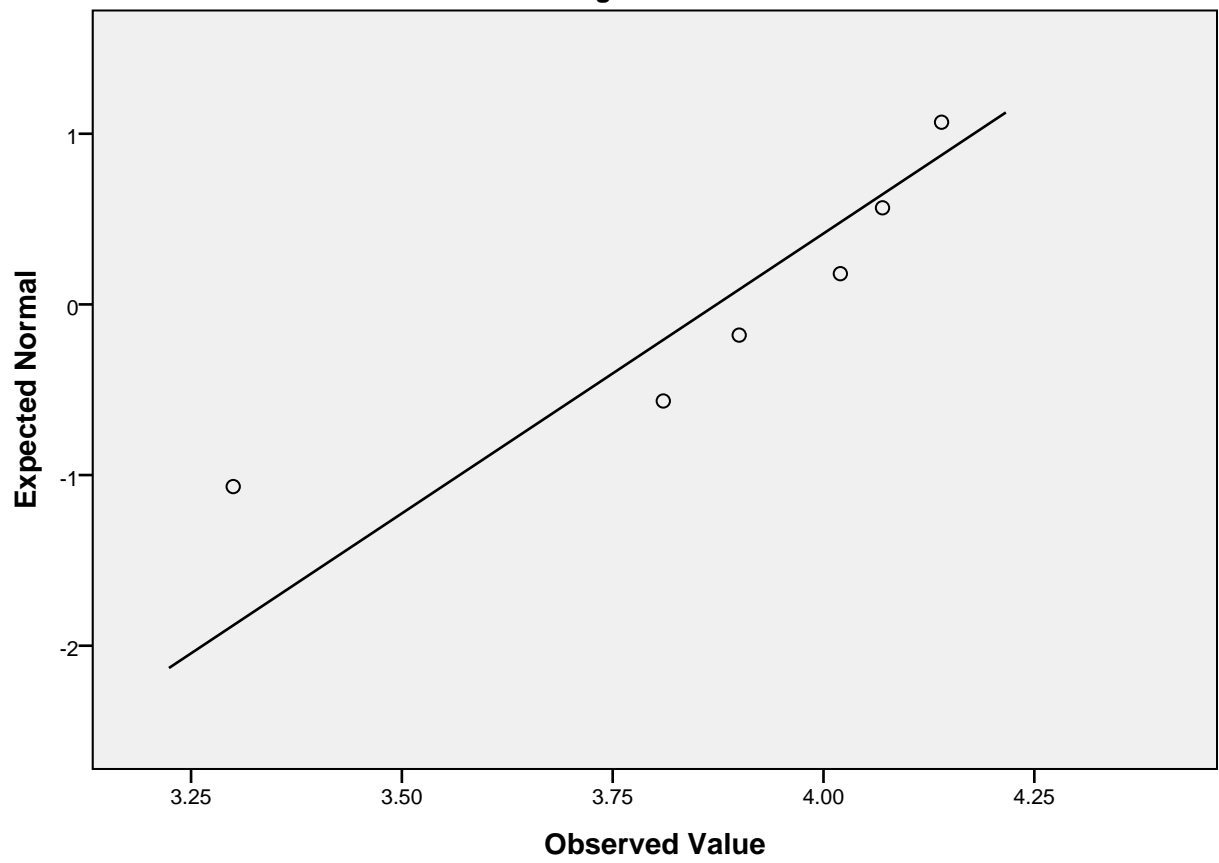
Frequency	Stem &	Leaf
3.00	3 .	179
2.00	4 .	03
1.00	5 .	0

Stem width: 1.0
Each leaf: 1 case(s)

Normal Q-Q Plots

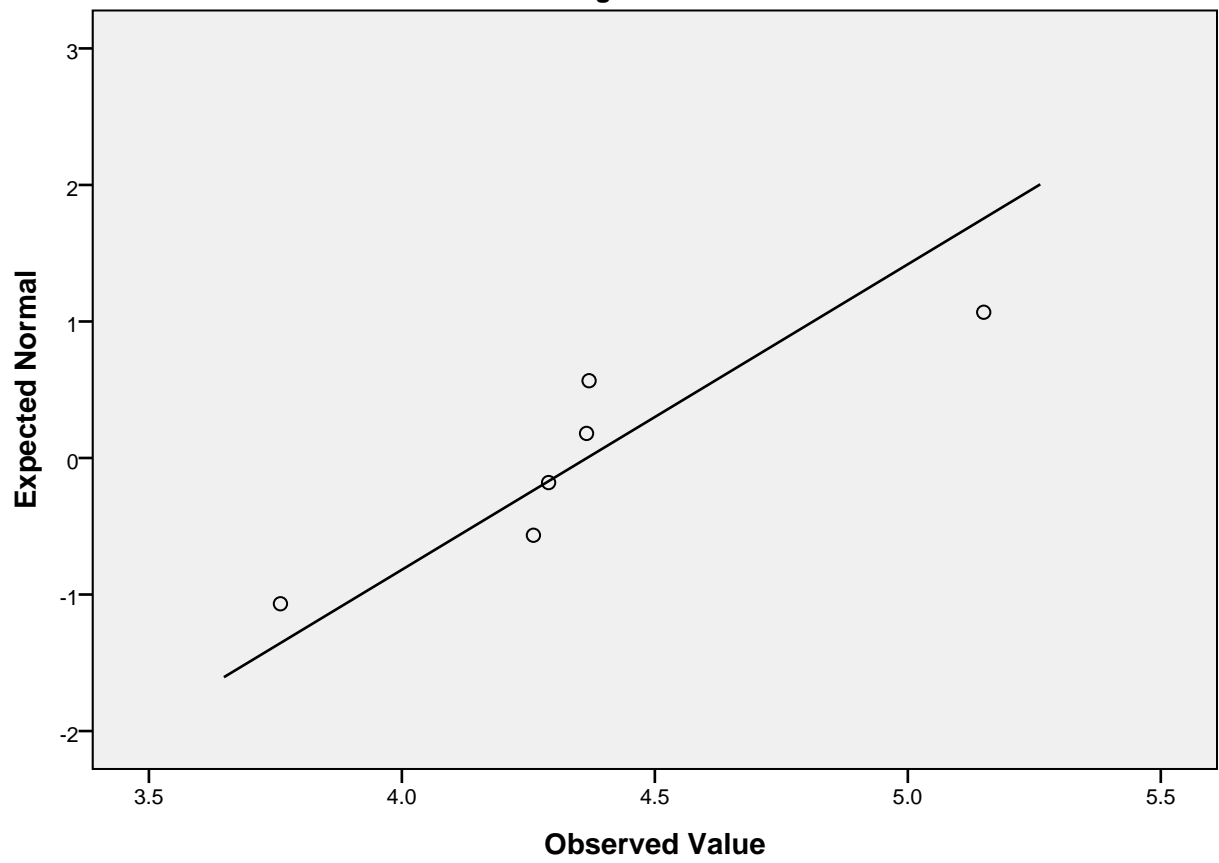
Normal Q-Q Plot of ned4

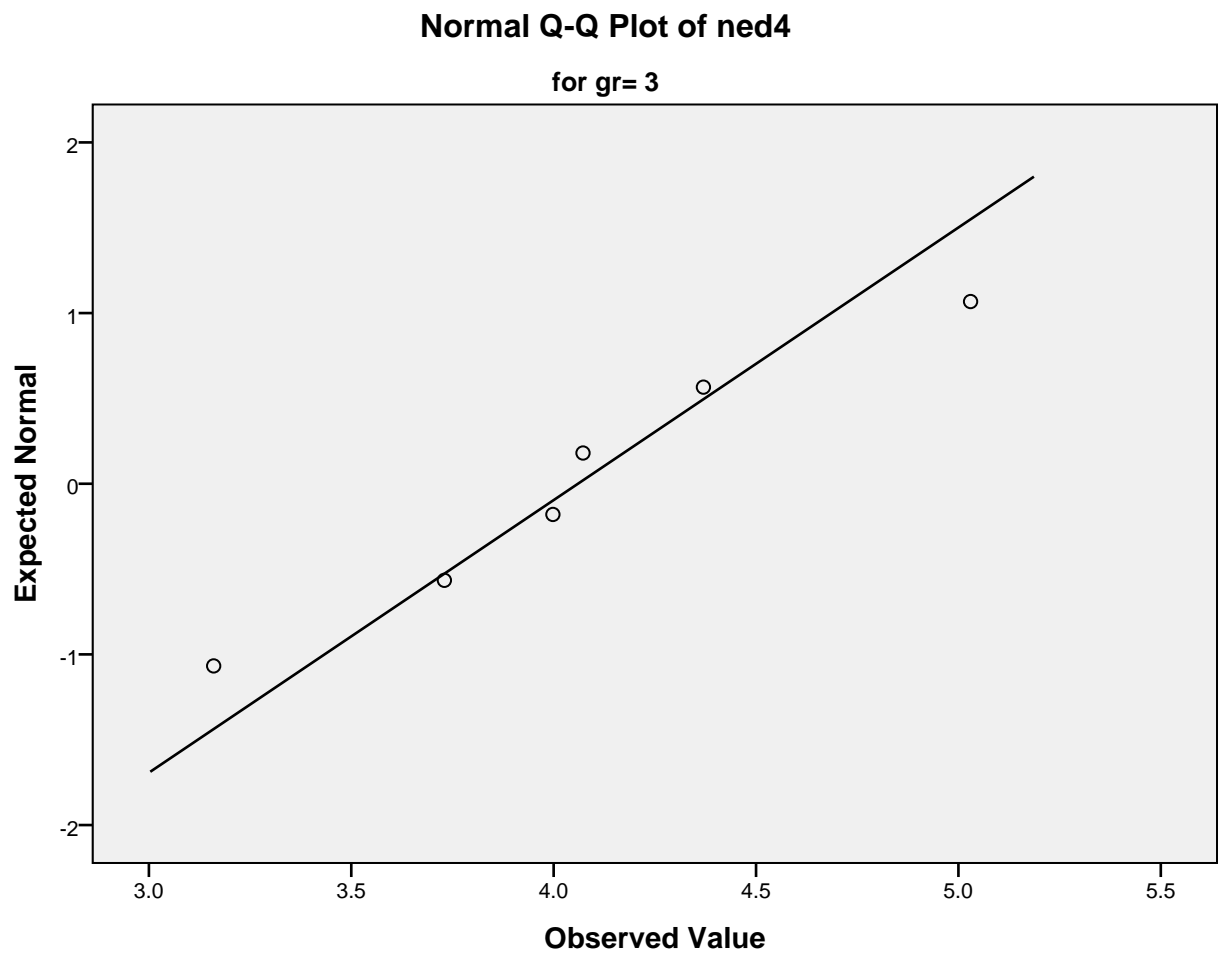
for gr= 1



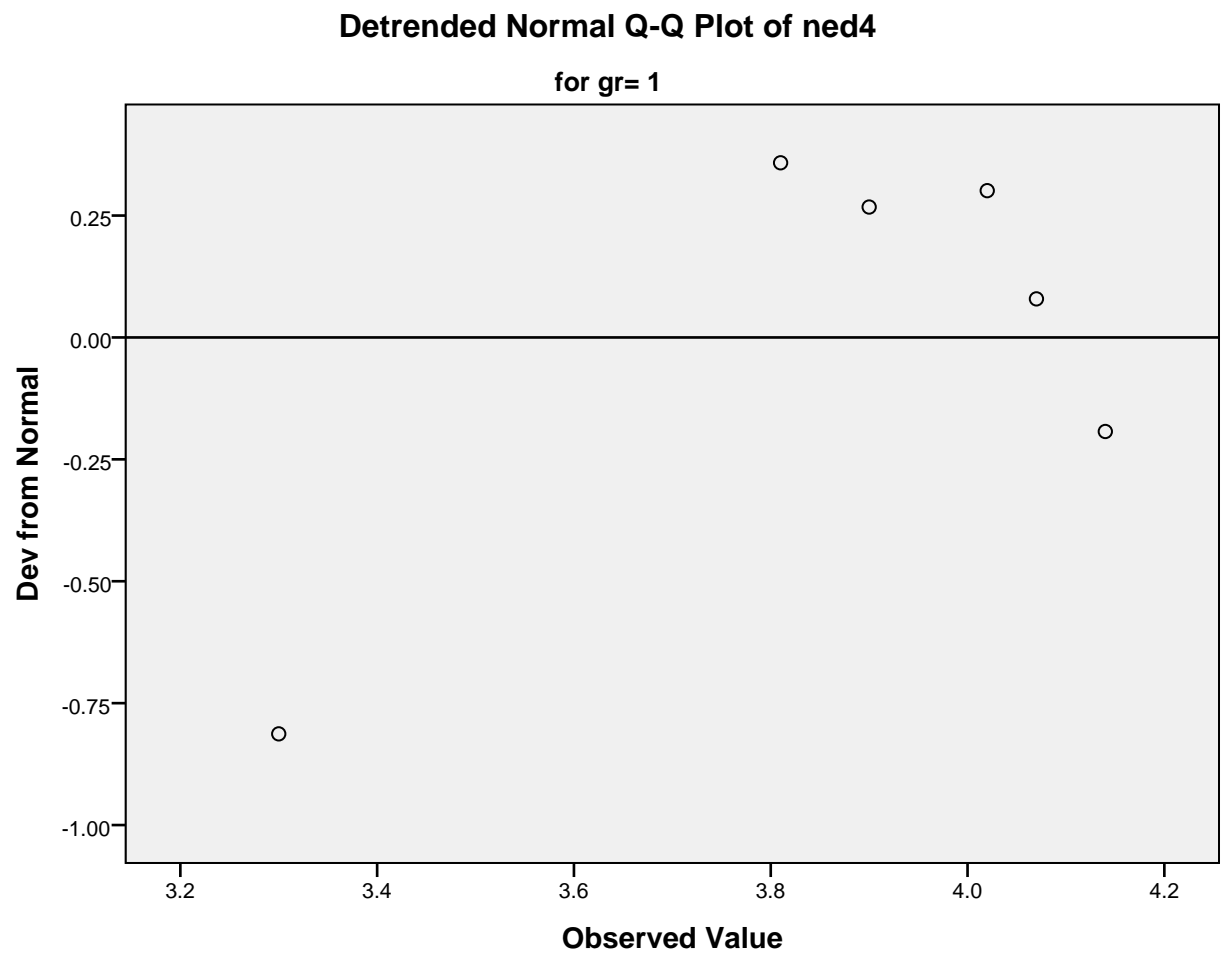
Normal Q-Q Plot of ned4

for gr= 2



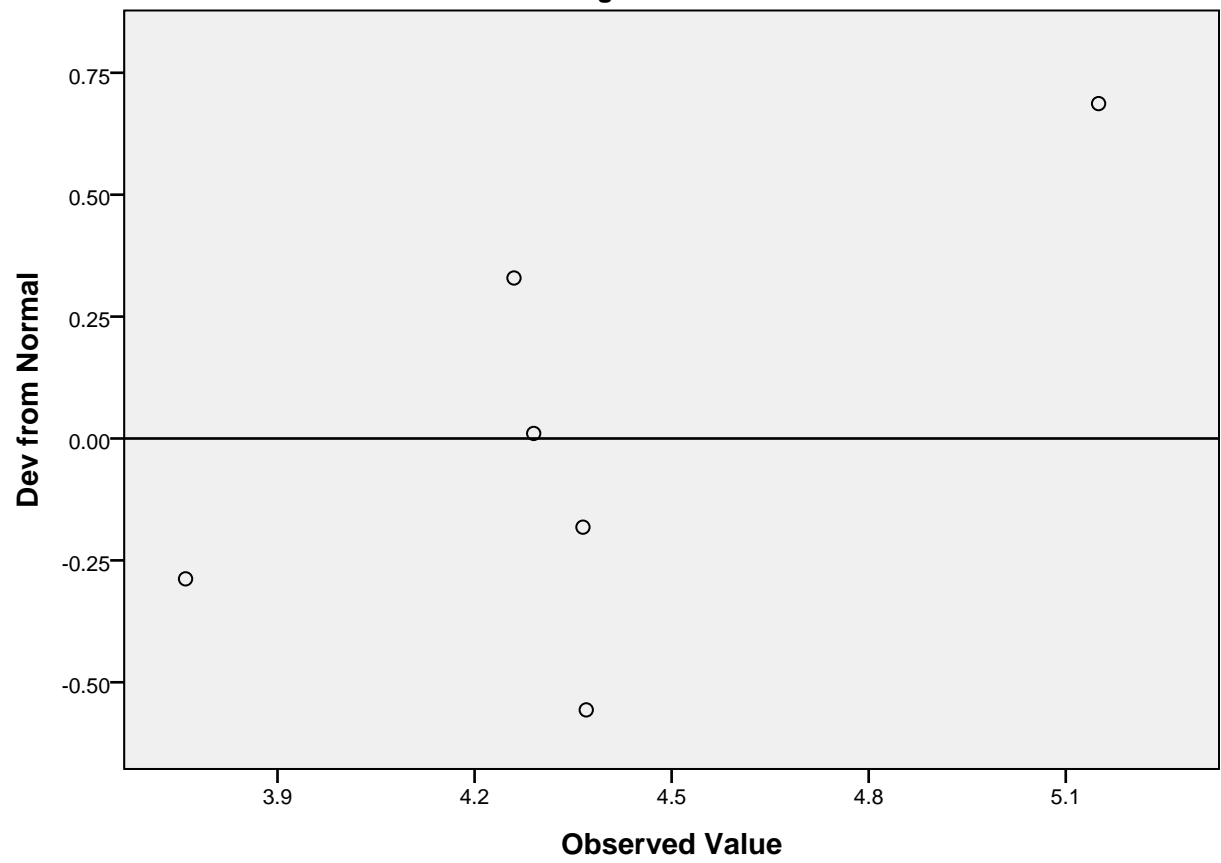


Detrended Normal Q-Q Plots



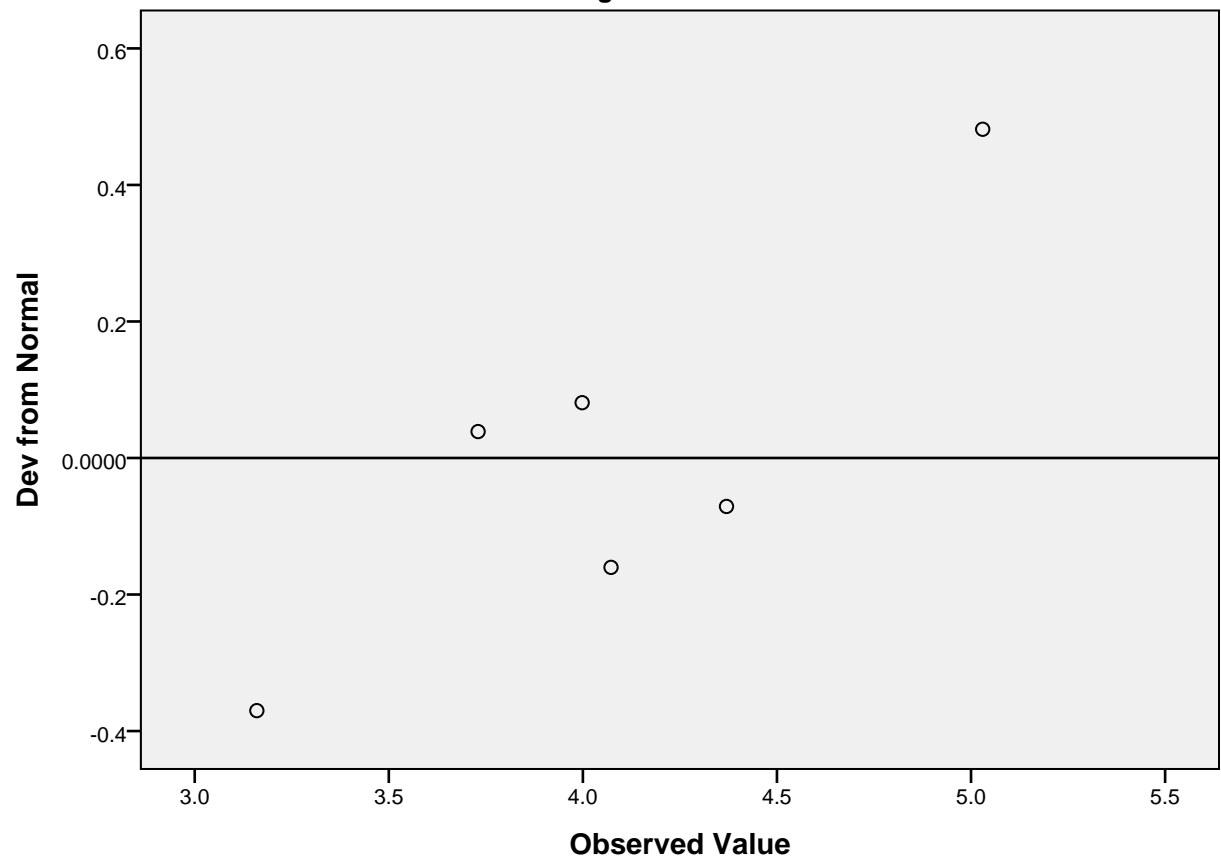
Detrended Normal Q-Q Plot of ned4

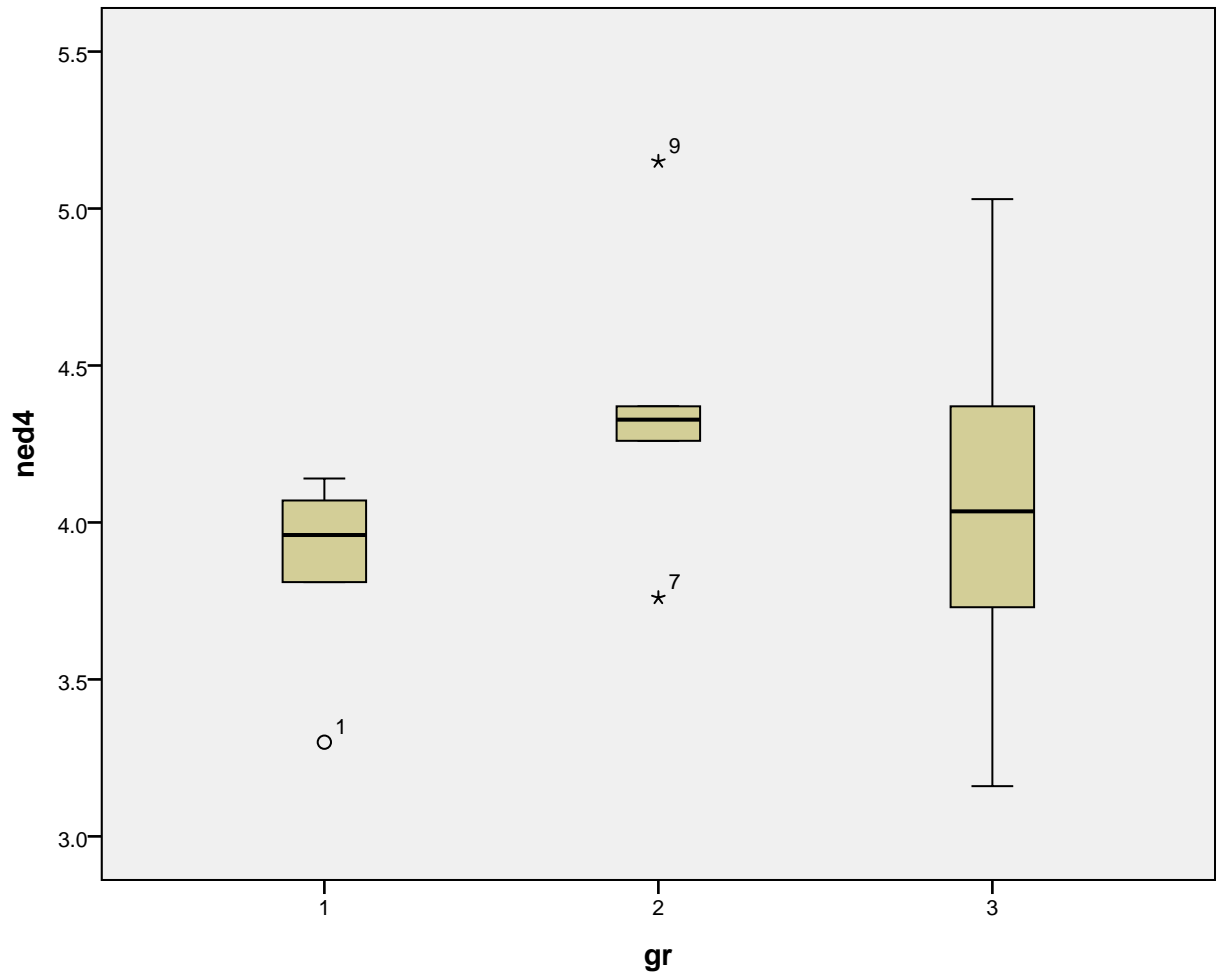
for gr= 2



Detrended Normal Q-Q Plot of ned4

for gr= 3





ned8

Stem-and-Leaf Plots

ned8 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
2.00	3 .	13
1.00	3 .	7
3.00	4 .	011

Stem width: 1.00
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	Extremes	(= ≤ 2.45)
1.00	33	. 9
.00	34	.
1.00	35	. 1
2.00	36	. 12
1.00	Extremes	(≥ 5.12)

Stem width: .10
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 3

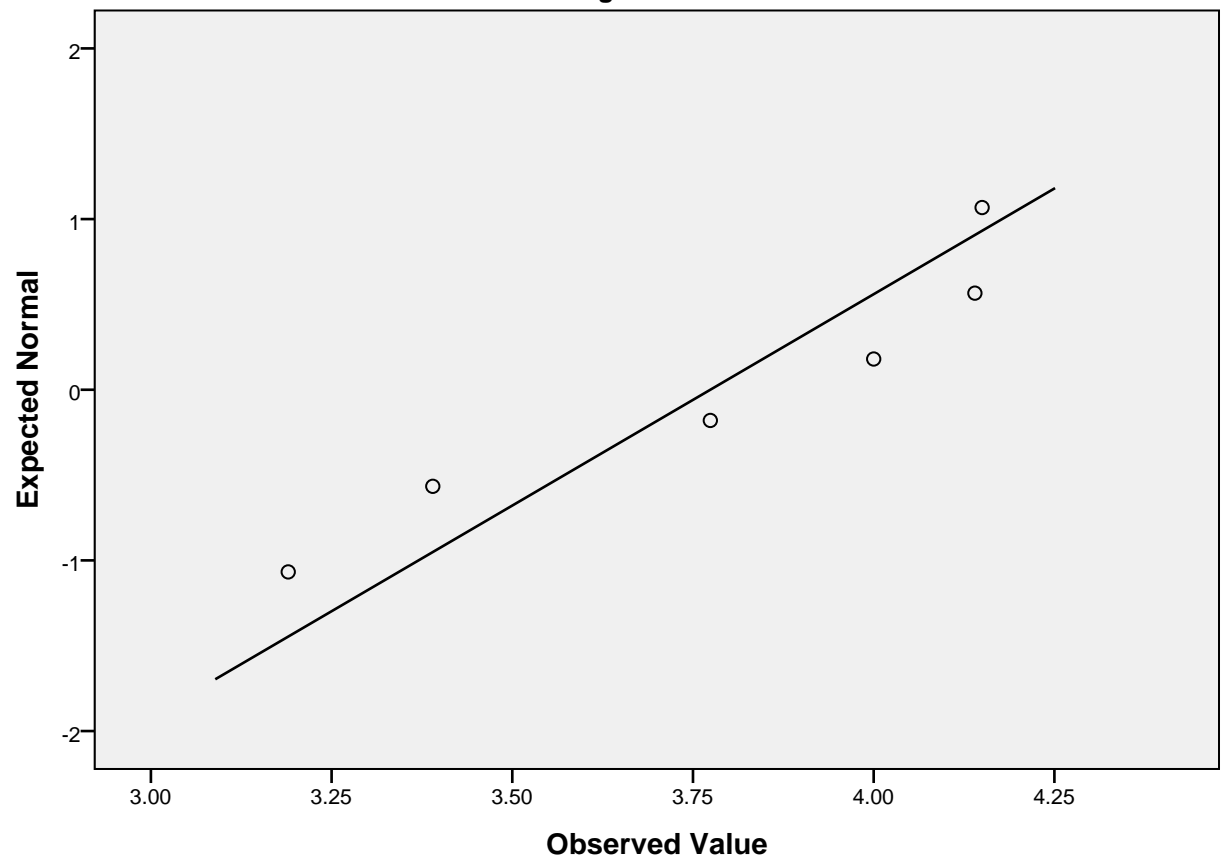
Frequency	Stem &	Leaf
1.00	Extremes	(= ≤ 3.61)
2.00	38	. 78
2.00	39	. 09
1.00	40	. 1

Stem width: .10
Each leaf: 1 case(s)

Normal Q-Q Plots

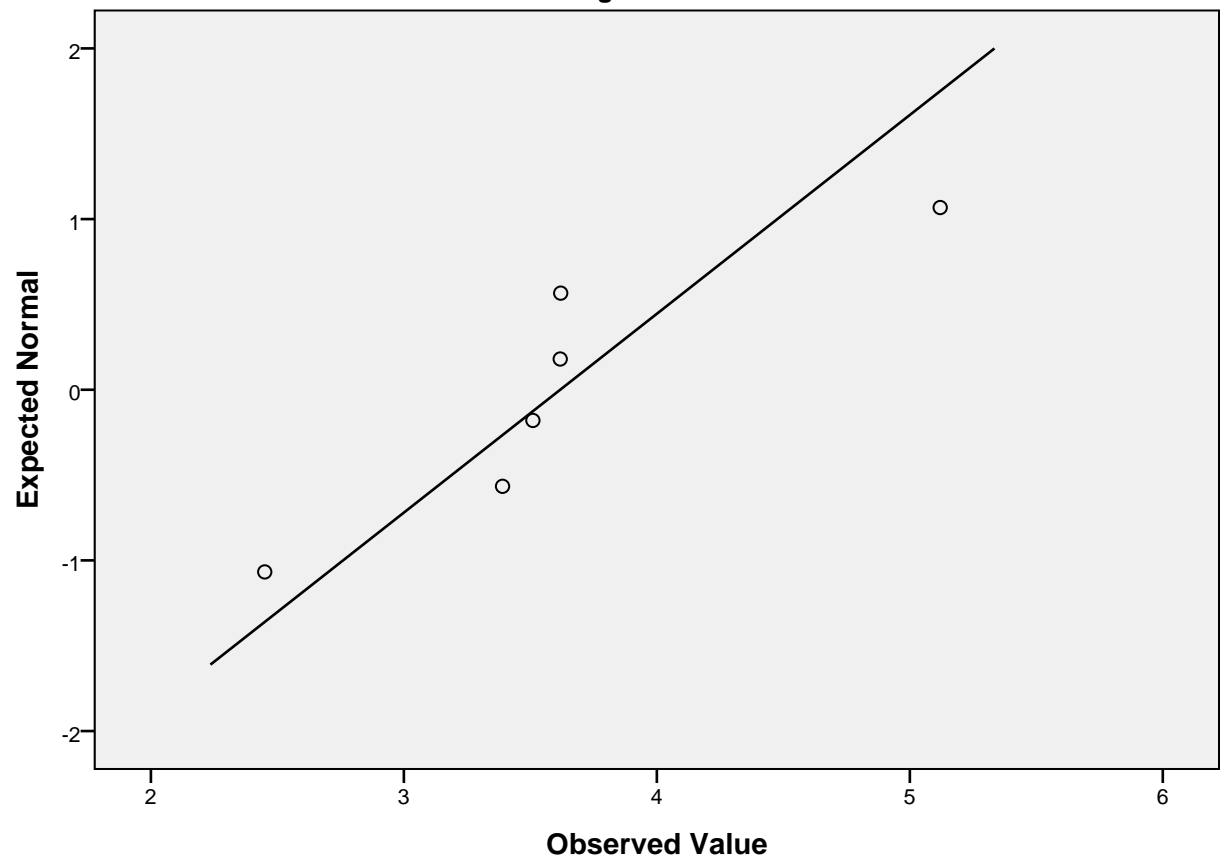
Normal Q-Q Plot of ned8

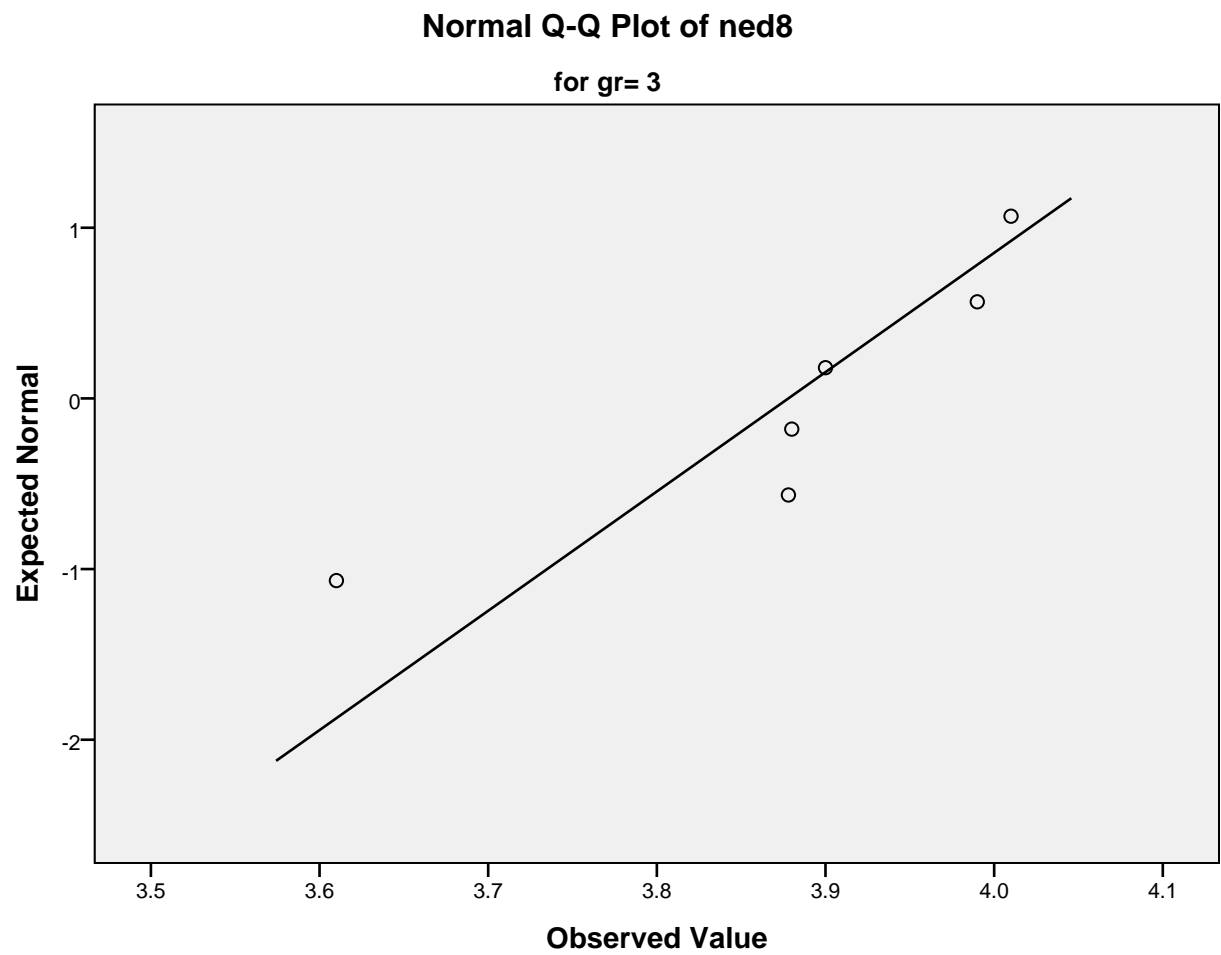
for gr= 1



Normal Q-Q Plot of ned8

for gr= 2

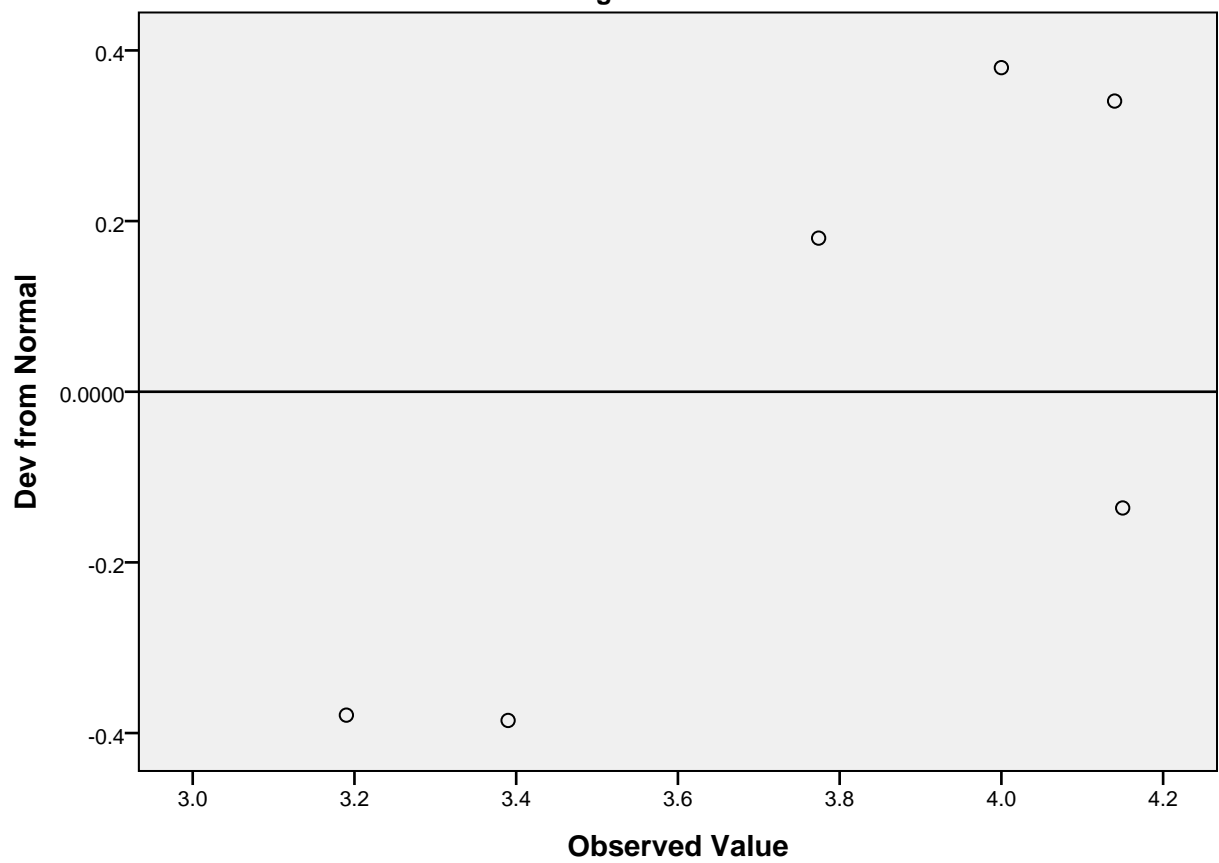




Detrended Normal Q-Q Plots

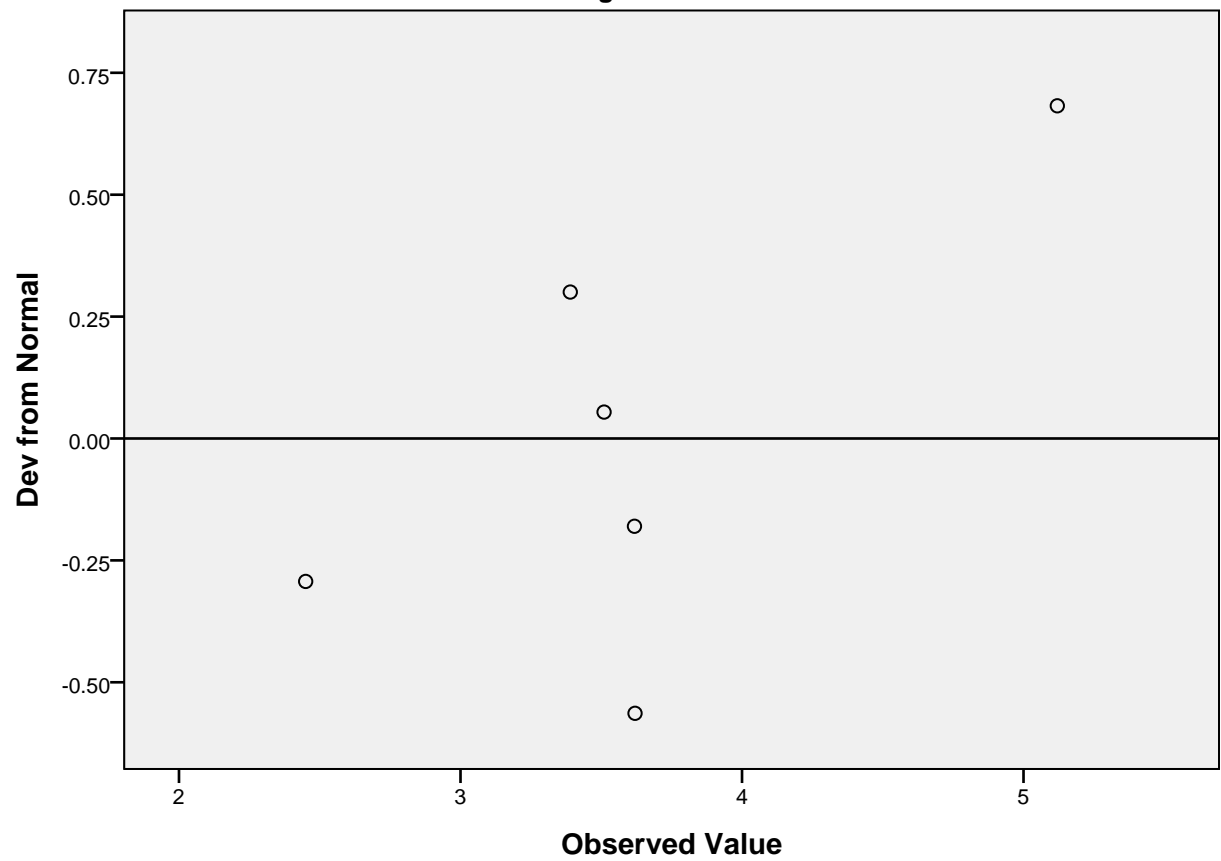
Detrended Normal Q-Q Plot of ned8

for gr= 1



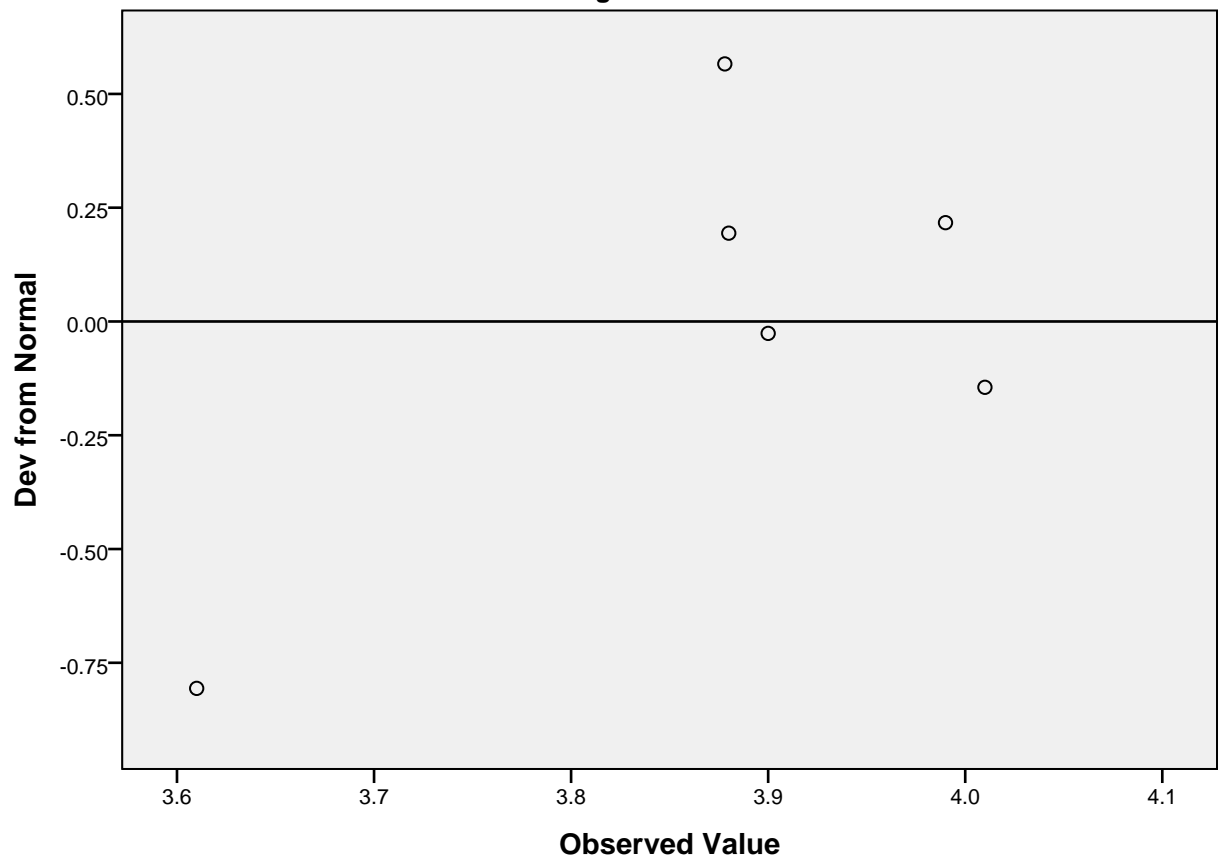
Detrended Normal Q-Q Plot of ned8

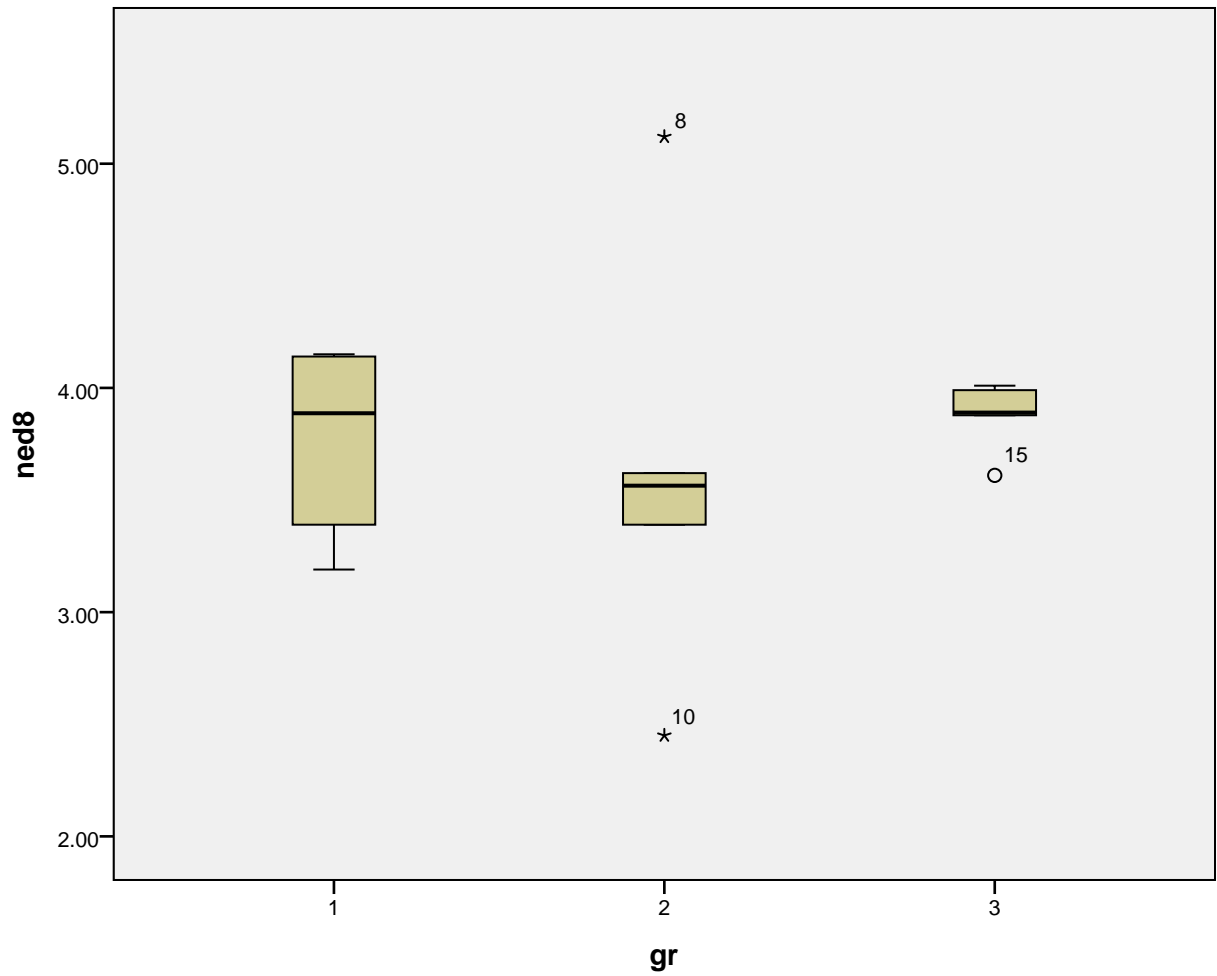
for gr= 2



Detrended Normal Q-Q Plot of ned8

for gr= 3





```
NPAR TESTS  
  /K-W=ned1 ned2 ned4 ned8 BY gr(1 3)  
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 23:03:57	
Comments			
Input	Active Dataset	DataSet1	
	Filter	<none>	
	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File	19	
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.	
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.	
Syntax		NPAR TESTS /K-W=ned1 ned2 ned4 ned8 BY gr (1 3) /MISSING ANALYSIS.	
Resources	Processor Time	00 00:00:00.000	
	Elapsed Time	00 00:00:00.003	
	Number of Cases Allowed ^a	78643	

a. Based on availability of workspace memory.

[DataSet1]

Kruskal-Wallis Test

Ranks

	gr	N	Mean Rank
ned1	1	6	9.50
	2	6	15.17
	3	6	3.83
	Total	18	
ned2	1	6	5.83
	2	6	14.50
	3	6	8.17
	Total	18	
ned4	1	6	6.83
	2	6	12.75
	3	6	8.92
	Total	18	
ned8	1	6	10.25
	2	6	7.08
	3	6	11.17
	Total	18	

Test Statistics^{a,b}

	ned1	ned2	ned4	ned8
Chi-Square	13.520	8.485	3.796	1.935
df	2	2	2	2
Asymp. Sig.	.001	.014	.150	.380

a. Kruskal Wallis Test
b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 2)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 23:04:17
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (1 2) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.016
	Elapsed Time	00 00:00:00.004
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet1]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	3.83	23.00
	2	6	9.17	55.00
	Total	12		
ned2	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		
ned4	1	6	4.33	26.00
	2	6	8.67	52.00
	Total	12		
ned8	1	6	7.25	43.50
	2	6	5.75	34.50
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	2.000	.000	5.000	13.500
Wilcoxon W	23.000	21.000	26.000	34.500
Z	-2.562	-2.892	-2.082	-.722
Asymp. Sig. (2-tailed)	.010	.004	.037	.470
Exact Sig. [2*(1-tailed Sig.)]	.009 ^a	.002 ^a	.041 ^a	.485 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 3)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 23:04:41
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (1 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.004
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet1]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	9.17	55.00
	3	6	3.83	23.00
	Total	12		
ned2	1	6	5.83	35.00
	3	6	7.17	43.00
	Total	12		
ned4	1	6	6.00	36.00
	3	6	7.00	42.00
	Total	12		
ned8	1	6	6.50	39.00
	3	6	6.50	39.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	2.000	14.000	15.000	18.000
Wilcoxon W	23.000	35.000	36.000	39.000
Z	-2.562	-.642	-.480	.000
Asymp. Sig. (2-tailed)	.010	.521	.631	1.000
Exact Sig. [2*(1-tailed Sig.)]	.009 ^a	.589 ^a	.699 ^a	1.000 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(2 3)
```

```
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 23:05:02
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (2 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.015
	Elapsed Time	00 00:00:00.007
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet1]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned2	2	6	8.50	51.00
	3	6	4.50	27.00
	Total	12		
ned4	2	6	7.58	45.50
	3	6	5.42	32.50
	Total	12		
ned8	2	6	4.83	29.00
	3	6	8.17	49.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	.000	6.000	11.500	8.000
Wilcoxon W	21.000	27.000	32.500	29.000
Z	-2.882	-1.925	-1.043	-1.601
Asymp. Sig. (2-tailed)	.004	.054	.297	.109
Exact Sig. [2*(1-tailed Sig.)]	.002 ^a	.065 ^a	.310 ^a	.132 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

```

GET DATA
  /TYPE=XLS
  /FILE='C:\Users\vlada\Desktop\jelena rad #3\output poredjenje grupa JN.xls'
  /SHEET=name 'Vcam-1'
  /CELLRANGE=full
  /READNAMES=on
  /ASSUMEDSTRWIDTH=32767.
EXECUTE.
DATASET NAME DataSet3 WINDOW=FRONT.
EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr
  /PLOT BOXPLOT STEMLEAF NPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.

```

Explore

Notes

Output Created		11-Apr-2016 22:57:32
Comments		
Input	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00 00:00:03.932
	Elapsed Time	00 00:00:03.882

[DataSet3]

gr

Case Processing Summary

gr		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
ned1	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned2	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned4	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned8	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%

Descriptives

gr				Statistic	Std. Error
ned1	1	Mean		1.160	.2889
		95% Confidence Interval for Mean	Lower Bound	.417	
			Upper Bound	1.903	
		5% Trimmed Mean		1.153	
		Median		1.130	
		Variance		.501	
		Std. Deviation		.7076	
		Minimum		.1	
		Maximum		2.3	
		Range		2.2	
		Interquartile Range		.6	
		Skewness		.411	.845
		Kurtosis		2.558	1.741
	2	Mean		1.690	.1059
		95% Confidence Interval for Mean	Lower Bound	1.418	
			Upper Bound	1.962	
		5% Trimmed Mean		1.683	
		Median		1.675	
		Variance		.067	
		Std. Deviation		.2593	
		Minimum		1.4	
		Maximum		2.2	
		Range		.8	
		Interquartile Range		.3	
		Skewness		.985	.845
		Kurtosis		2.762	1.741

Descriptives

gr			Statistic	Std. Error
ned1	3	Mean	-.358	.1570
		95% Confidence Interval for Mean	Lower Bound Upper Bound	-.761 .046
		5% Trimmed Mean	-.360	
		Median	-.359	
		Variance	.148	
		Std. Deviation	.3845	
		Minimum	-.9	
		Maximum	.3	
		Range	1.2	
		Interquartile Range	.4	
		Skewness	.199	.845
		Kurtosis	2.100	1.741
ned2	1	Mean	.8760	.10388
		95% Confidence Interval for Mean	Lower Bound Upper Bound	.6090 1.1430
		5% Trimmed Mean	.8711	
		Median	.7980	
		Variance	.065	
		Std. Deviation	.25445	
		Minimum	.63	
		Maximum	1.21	
		Range	.58	
		Interquartile Range	.52	
		Skewness	.572	.845
		Kurtosis	-2.011	1.741

Descriptives

gr				Statistic	Std. Error
ned2	2	Mean		1.9260	.25207
		95% Confidence Interval for Mean	Lower Bound	1.2780	
			Upper Bound	2.5740	
		5% Trimmed Mean		1.9228	
		Median		1.9280	
		Variance		.381	
		Std. Deviation		.61743	
		Minimum		1.19	
		Maximum		2.72	
		Range		1.53	
		Interquartile Range		1.29	
		Skewness		.043	.845
		Kurtosis		-1.611	1.741
	3	Mean		1.1060	.17500
		95% Confidence Interval for Mean	Lower Bound	.6562	
			Upper Bound	1.5558	
		5% Trimmed Mean		1.0978	
		Median		1.1080	
		Variance		.184	
		Std. Deviation		.42865	
		Minimum		.53	
		Maximum		1.83	
		Range		1.30	
		Interquartile Range		.57	
		Skewness		.670	.845
		Kurtosis		1.794	1.741

Descriptives

gr			Statistic	Std. Error
ned4	1	Mean	1.7667	.32741
		95% Confidence Interval for Mean	Lower Bound Upper Bound	.9250 2.6083
		5% Trimmed Mean	1.7752	
		Median	1.9850	
		Variance	.643	
		Std. Deviation	.80199	
		Minimum	.80	
		Maximum	2.58	
		Range	1.78	
		Interquartile Range	1.62	
		Skewness	-.412	.845
		Kurtosis	-2.311	1.741
	2	Mean	2.4421	.05338
		95% Confidence Interval for Mean	Lower Bound Upper Bound	2.3049 2.5793
		5% Trimmed Mean	2.4468	
		Median	2.4413	
		Variance	.017	
		Std. Deviation	.13075	
		Minimum	2.21	
		Maximum	2.59	
		Range	.38	
		Interquartile Range	.18	
		Skewness	-1.118	.845
		Kurtosis	2.065	1.741

Descriptives

gr				Statistic	Std. Error
ned4	3	Mean		1.2021	.13184
		95% Confidence Interval for Mean	Lower Bound	.8632	
			Upper Bound	1.5410	
		5% Trimmed Mean		1.2040	
		Median		1.2013	
		Variance		.104	
		Std. Deviation		.32295	
		Minimum		.78	
		Maximum		1.59	
		Range		.81	
		Interquartile Range		.67	
		Skewness		-.058	
		Kurtosis		-1.538	
		ned8	1	Mean	
95% Confidence Interval for Mean	Lower Bound			1.2784	
	Upper Bound			1.8176	
5% Trimmed Mean				1.5383	
Median				1.5340	
Variance				.066	
Std. Deviation				.25686	
Minimum				1.26	
Maximum				2.01	
Range				.75	
Interquartile Range				.35	
Skewness				1.223	
Kurtosis				2.345	

Descriptives

gr				Statistic	Std. Error
ned8	2	Mean		2.8160	.12651
		95% Confidence Interval for Mean	Lower Bound	2.4908	
			Upper Bound	3.1412	
		5% Trimmed Mean		2.8100	
		Median		2.8180	
		Variance		.096	
		Std. Deviation		.30988	
		Minimum		2.45	
		Maximum		3.29	
		Range		.84	
		Interquartile Range		.57	
		Skewness		.381	
	Kurtosis		-.386	1.741	
	3	Mean		1.1860	.09622
		95% Confidence Interval for Mean	Lower Bound	.9387	
Upper Bound			1.4333		
5% Trimmed Mean		1.1844			
Median		1.1880			
Variance		.056			
Std. Deviation		.23568			
Minimum		.90			
Maximum		1.50			
Range		.60			
Interquartile Range		.48			
Skewness		.067	.845		
Kurtosis		-1.429	1.741		

Tests of Normality

gr	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ned1	1	6	.036	.850	6	.158
	2	6	.036	.875	6	.246
	3	6	.200 [*]	.921	6	.512
ned2	1	6	.200 [*]	.858	6	.183
	2	6	.200 [*]	.919	6	.501
	3	6	.200 [*]	.933	6	.607
ned4	1	6	.200 [*]	.844	6	.142
	2	6	.108	.887	6	.305
	3	6	.200 [*]	.926	6	.553
ned8	1	6	.142	.896	6	.351
	2	6	.200 [*]	.950	6	.736
	3	6	.200 [*]	.935	6	.621

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

ned1

Stem-and-Leaf Plots

ned1 Stem-and-Leaf Plot for
gr= 1

```

Frequency      Stem & Leaf

      1.00 Extremes      (= < .11)
      1.00          10 .  9
      1.00          11 .  0
      2.00          11 .  66
      1.00 Extremes      (>= 2.34)

```

```

Stem width:      .1
Each leaf:      1 case(s)

```

ned1 Stem-and-Leaf Plot for
gr= 2

```

Frequency      Stem & Leaf

```

```

1.00 Extremes      (= < 1.35)
1.00          16 .  0
3.00          16 . 699
1.00 Extremes      (>= 2.15)

```

```

Stem width:      .1
Each leaf:      1 case(s)

```

ned1 Stem-and-Leaf Plot for
gr= 3

```

Frequency      Stem & Leaf

1.00 Extremes      (= < -.94)
1.00          -4 .  7
2.00          -3 . 56
1.00          -2 .  8
1.00 Extremes      (>= .26)

```

```

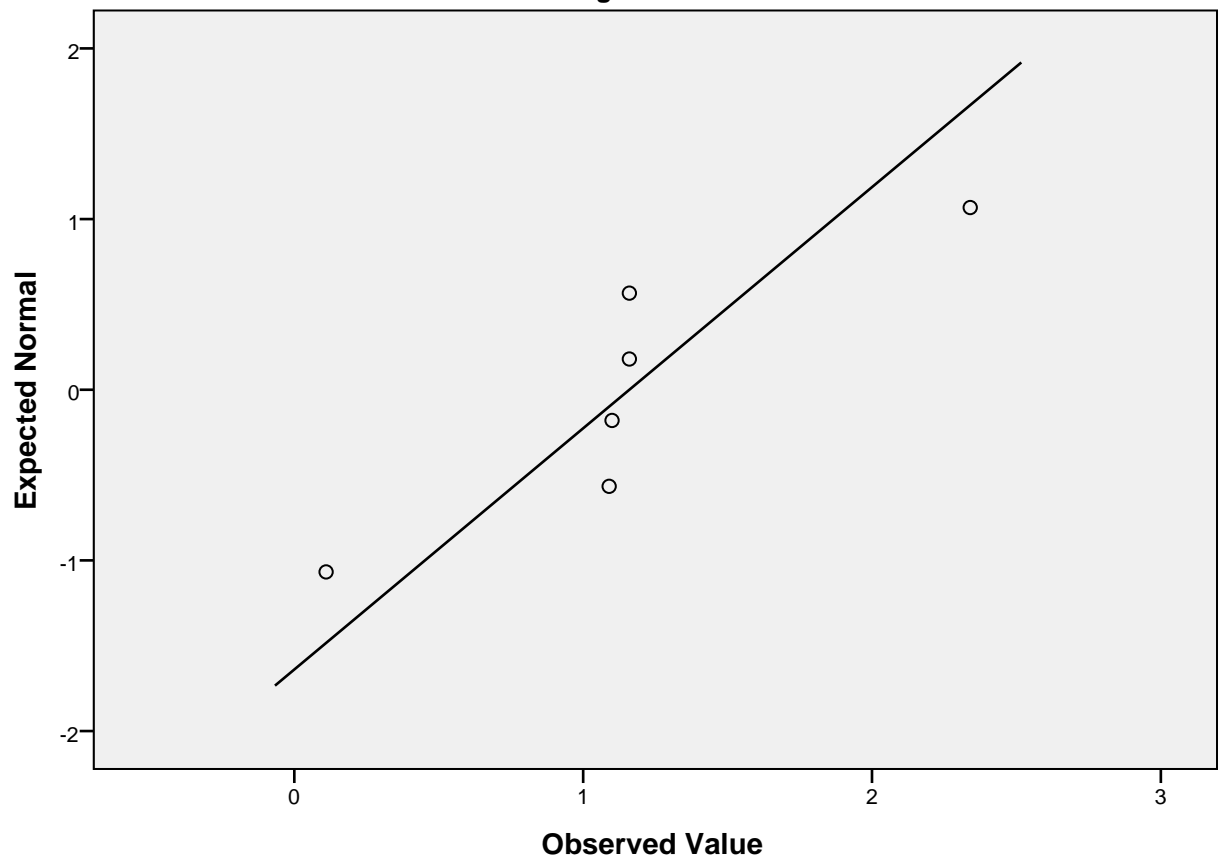
Stem width:      .1
Each leaf:      1 case(s)

```

Normal Q-Q Plots

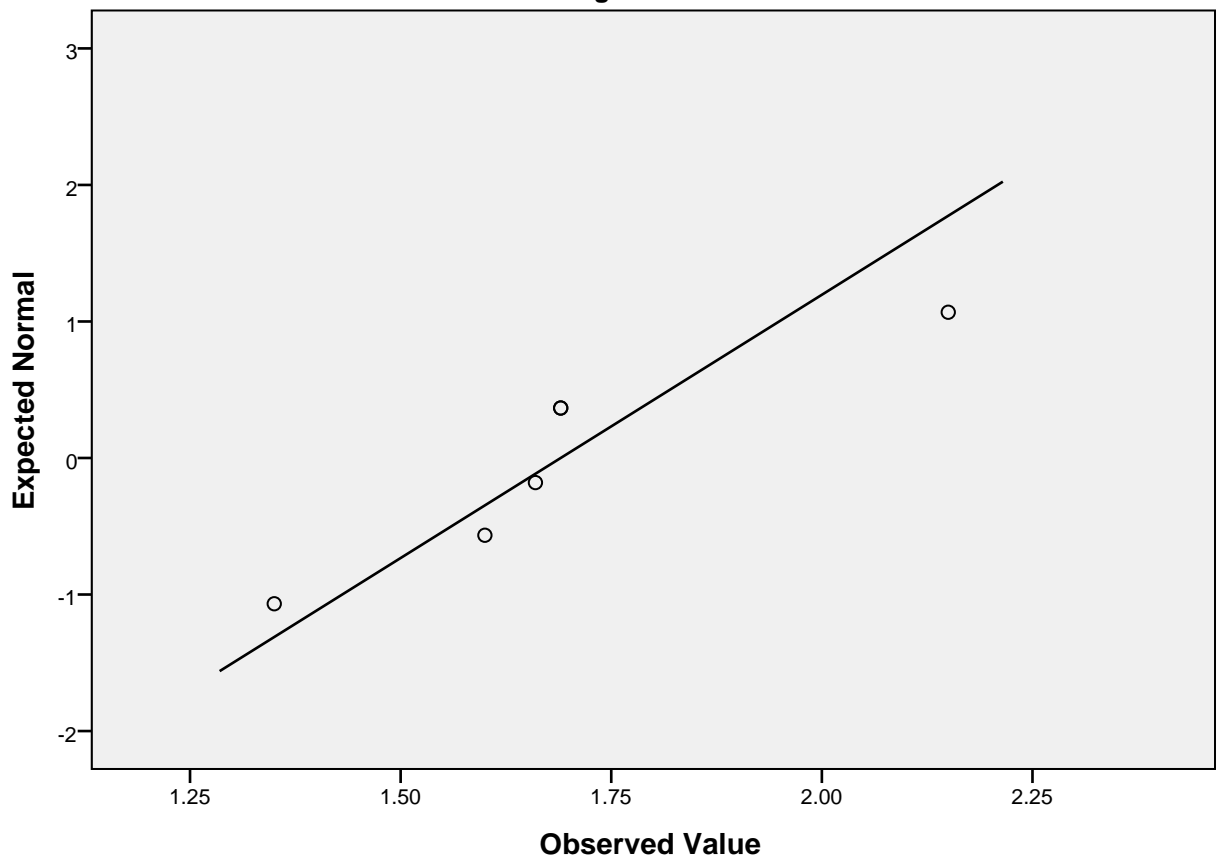
Normal Q-Q Plot of ned1

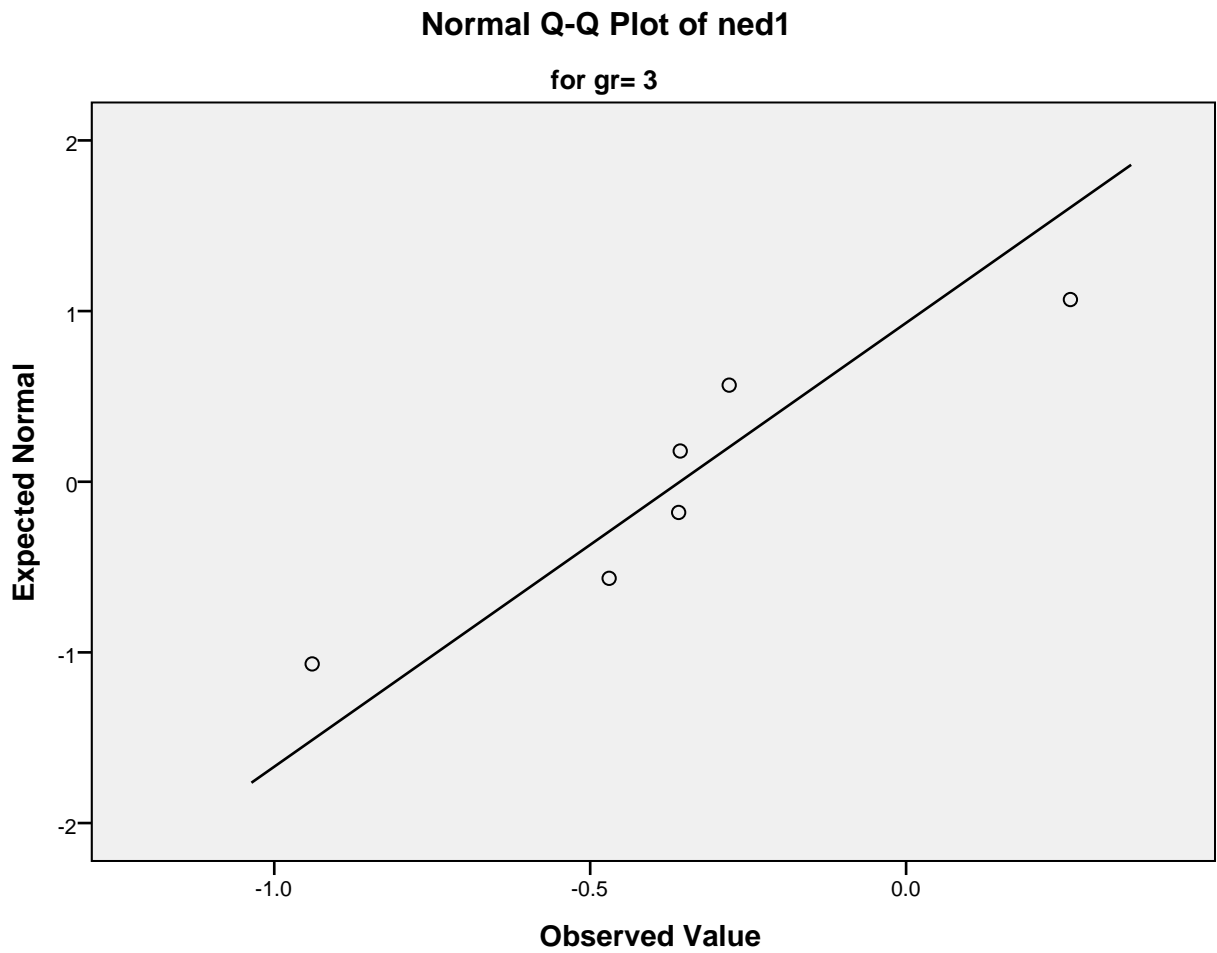
for gr= 1



Normal Q-Q Plot of ned1

for gr= 2

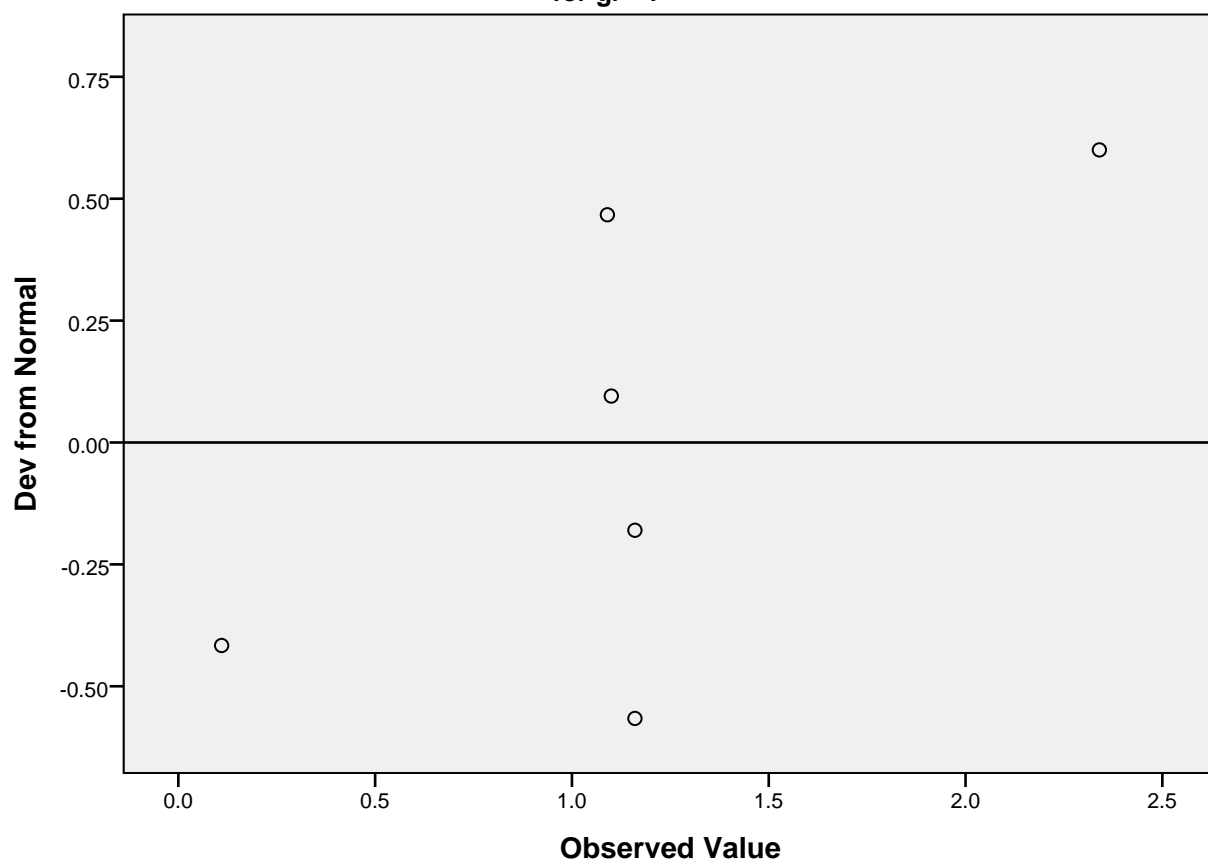


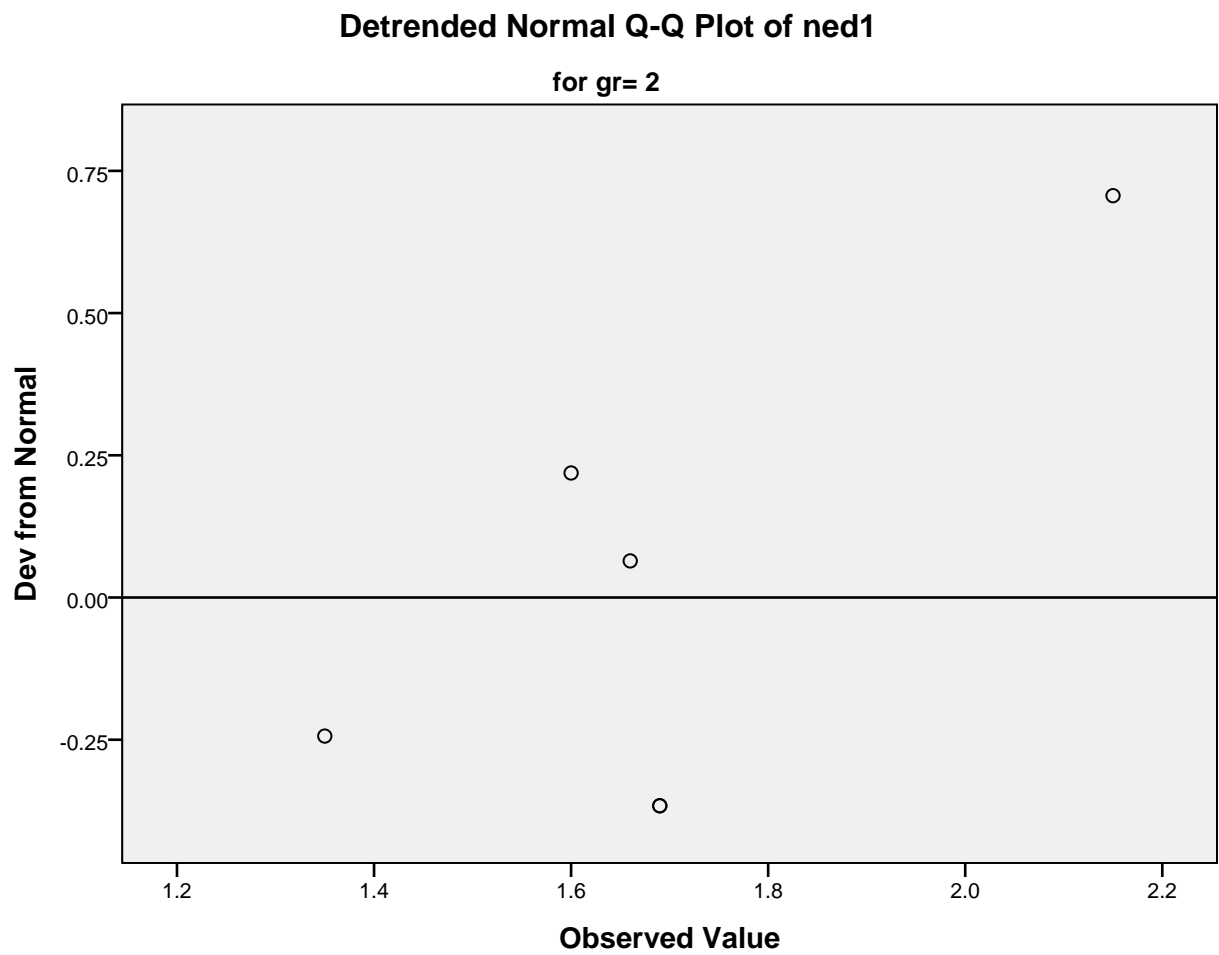


Detrended Normal Q-Q Plots

Detrended Normal Q-Q Plot of ned1

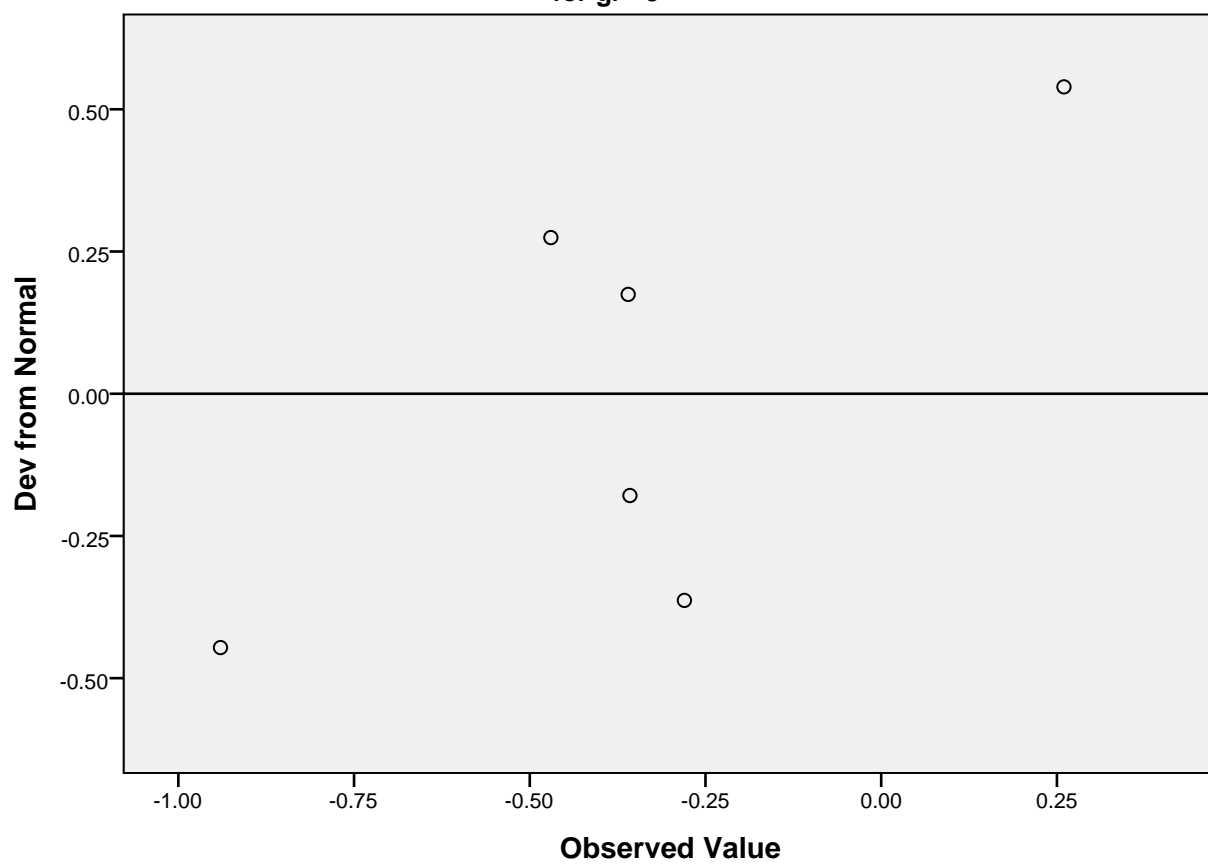
for gr= 1

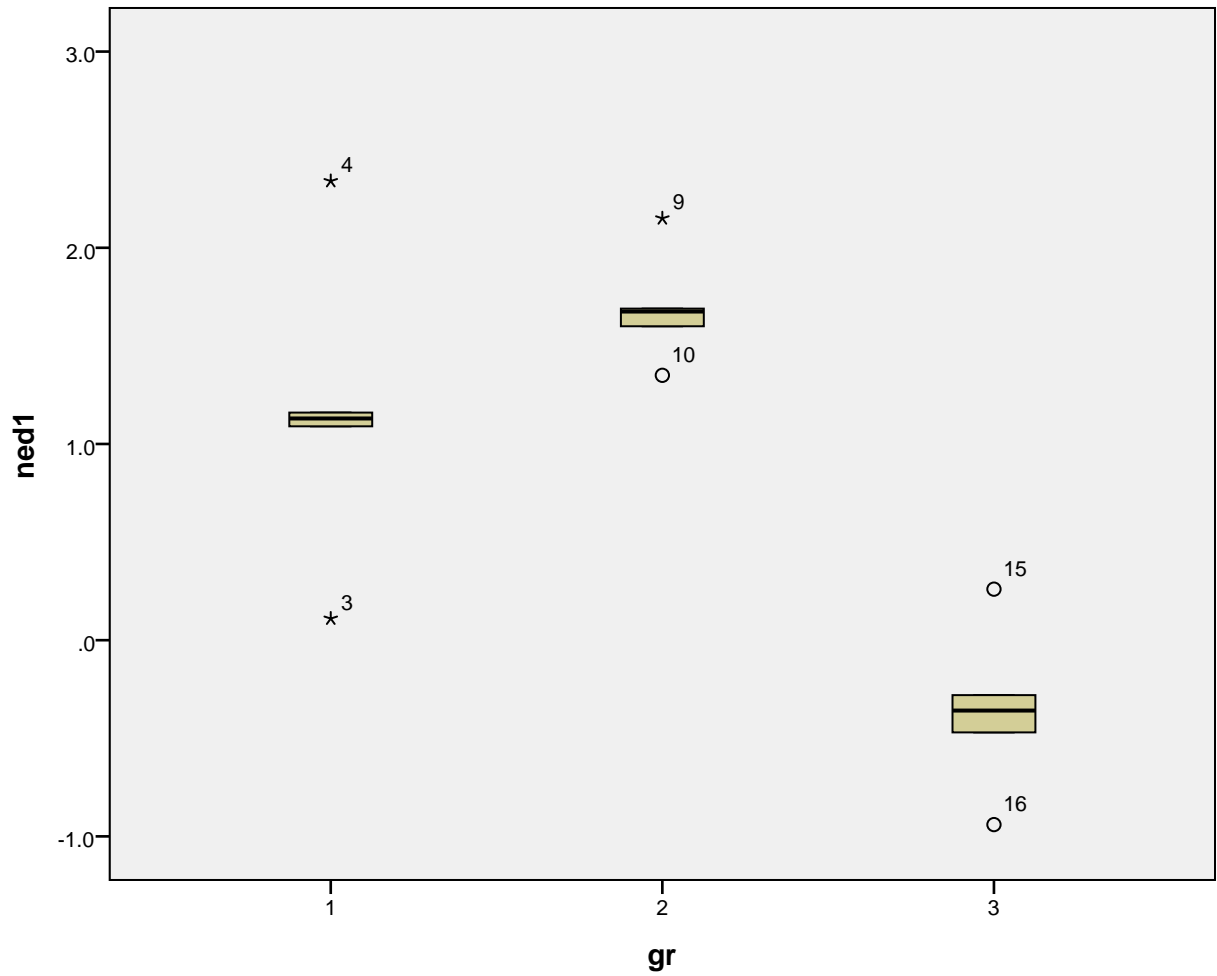




Detrended Normal Q-Q Plot of ned1

for gr= 3





ned2

Stem-and-Leaf Plots

ned2 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
4.00	0 .	6678
2.00	1 .	12

Stem width: 1.00
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
2.00	1 .	12
2.00	1 .	99
.00	2 .	
2.00	2 .	57

Stem width: 1.00
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 3

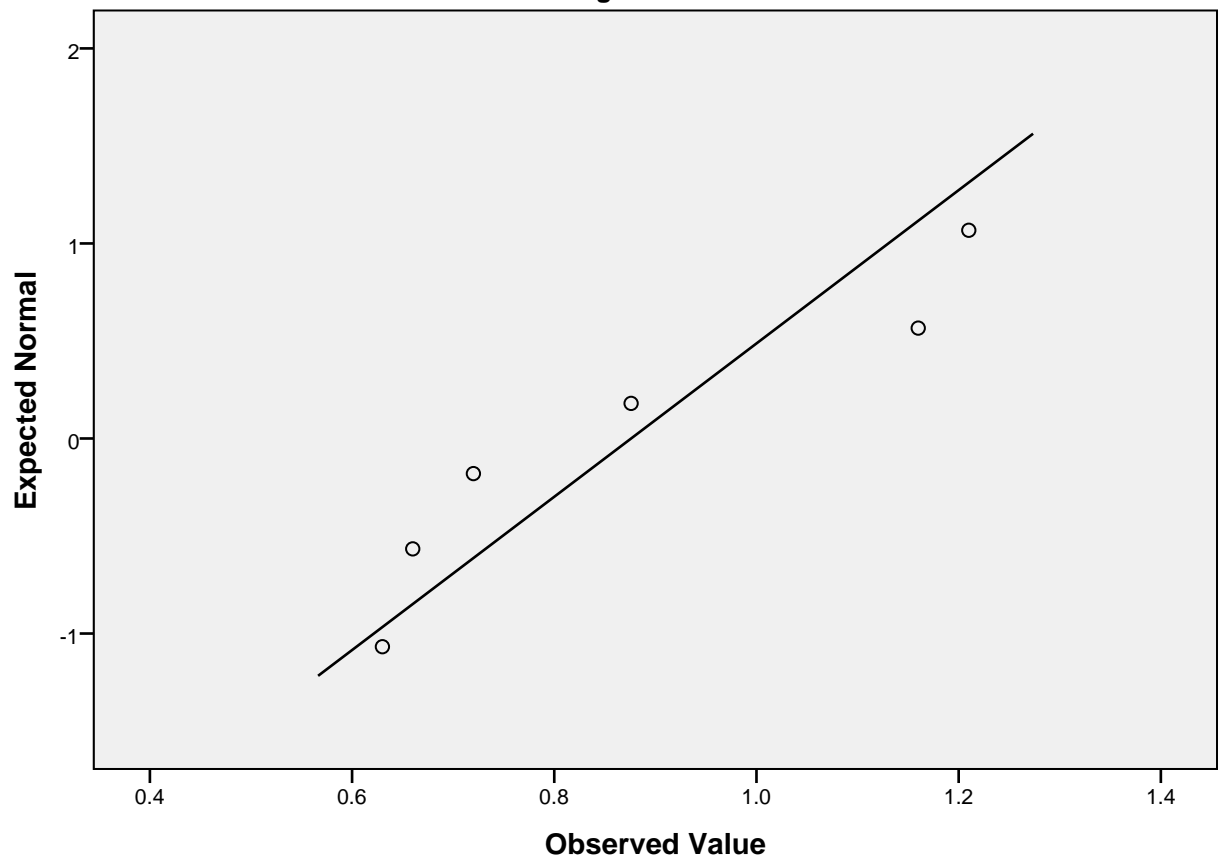
Frequency	Stem &	Leaf
2.00	0 .	58
3.00	1 .	111
1.00	Extremes	(>=1.8)

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

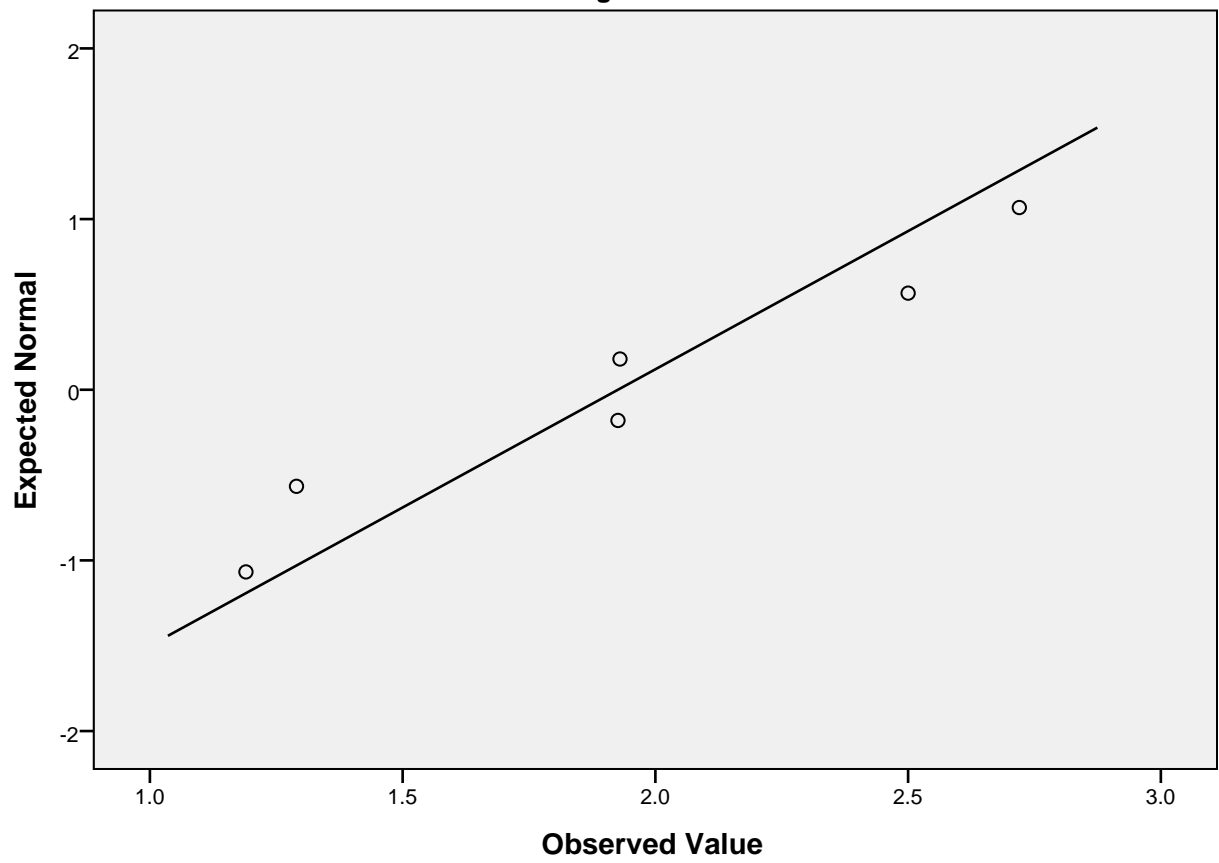
Normal Q-Q Plot of ned2

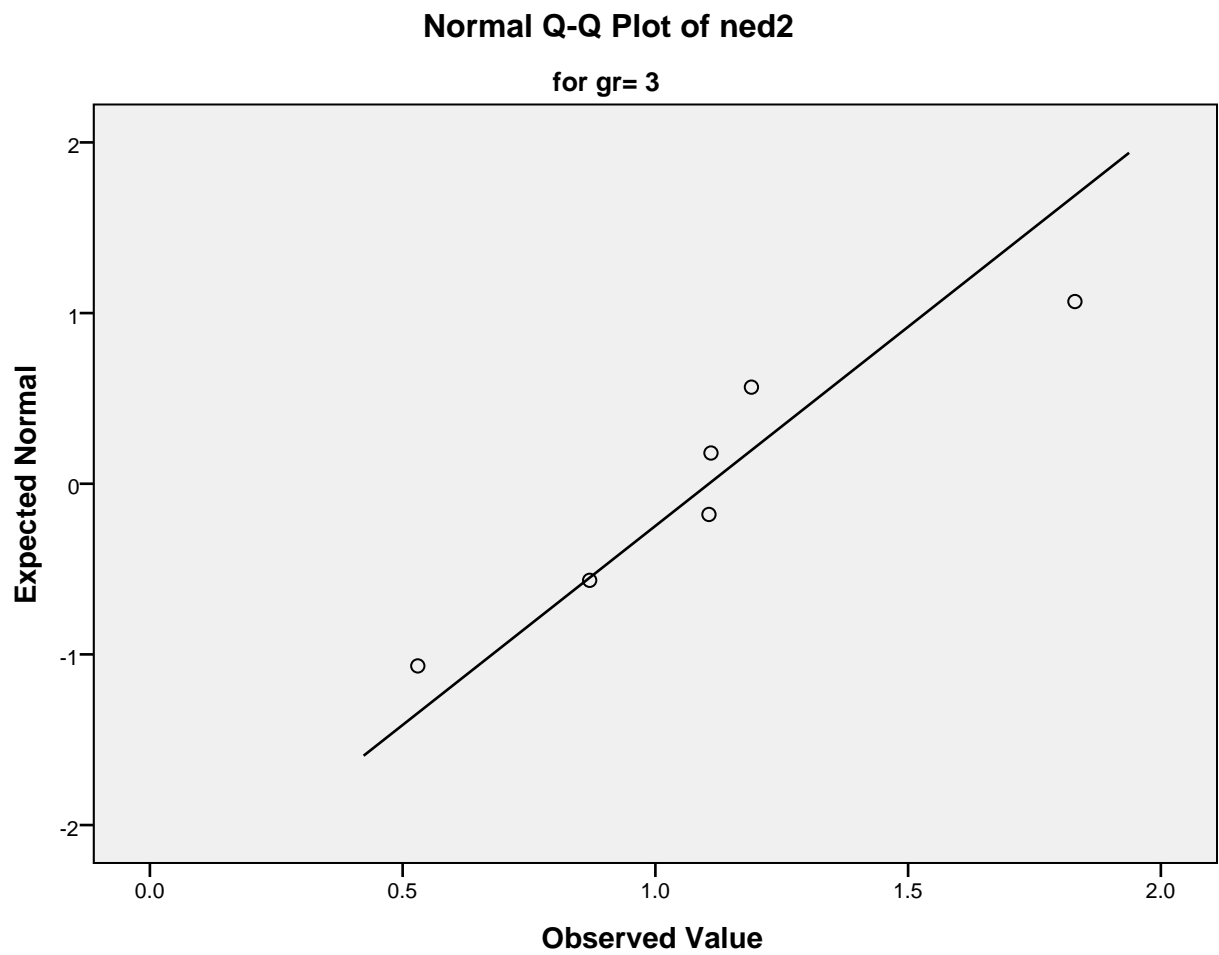
for gr= 1



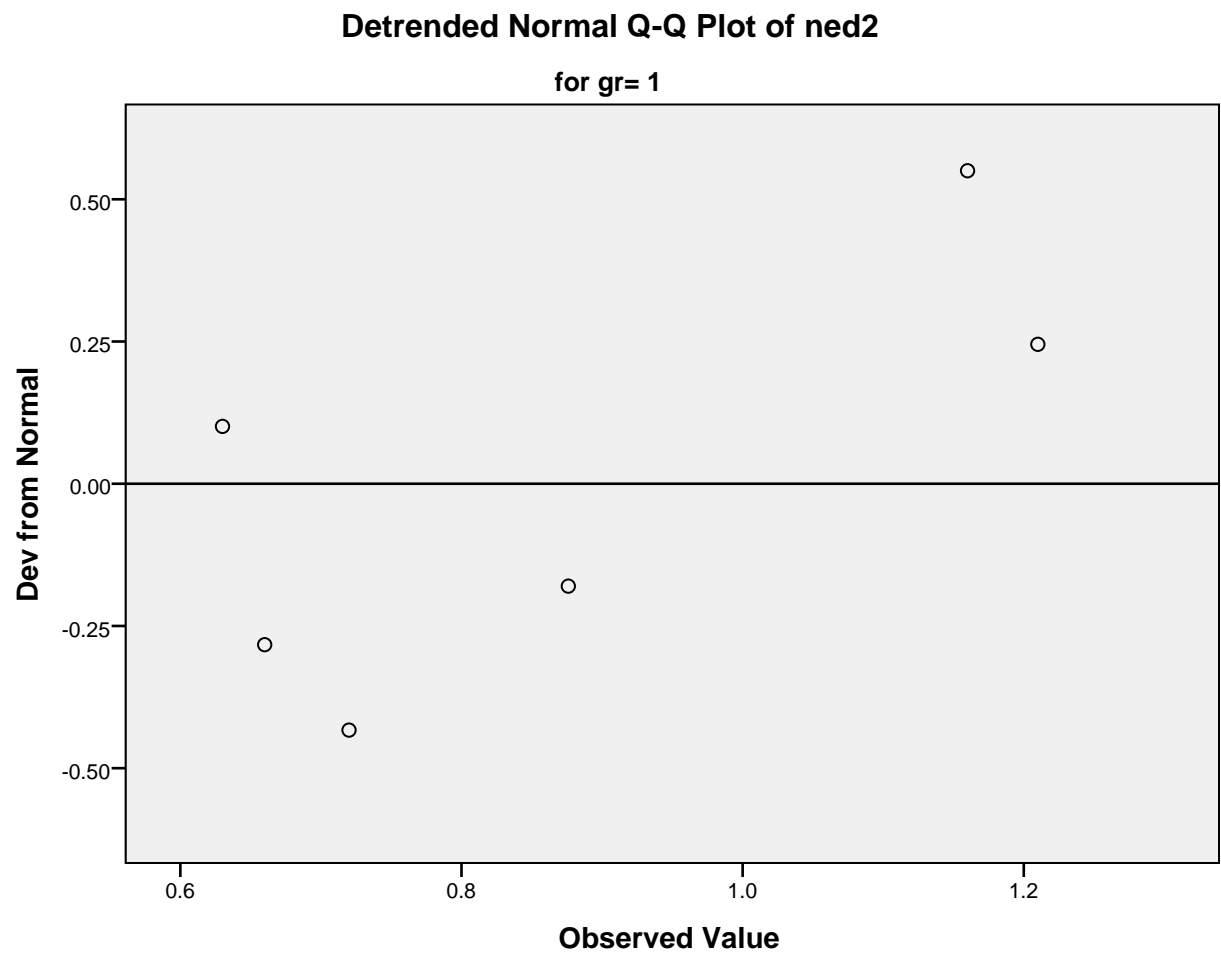
Normal Q-Q Plot of ned2

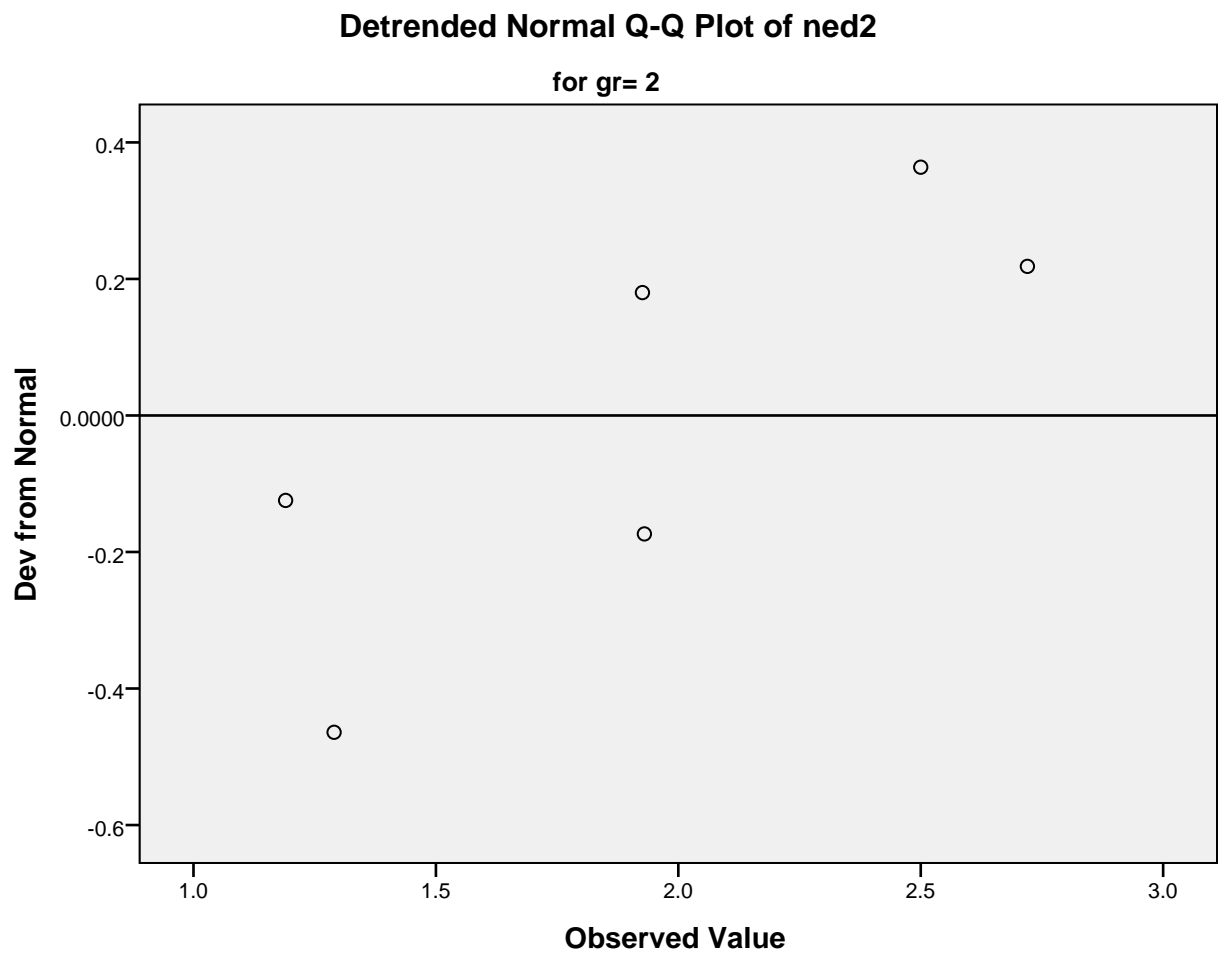
for gr= 2





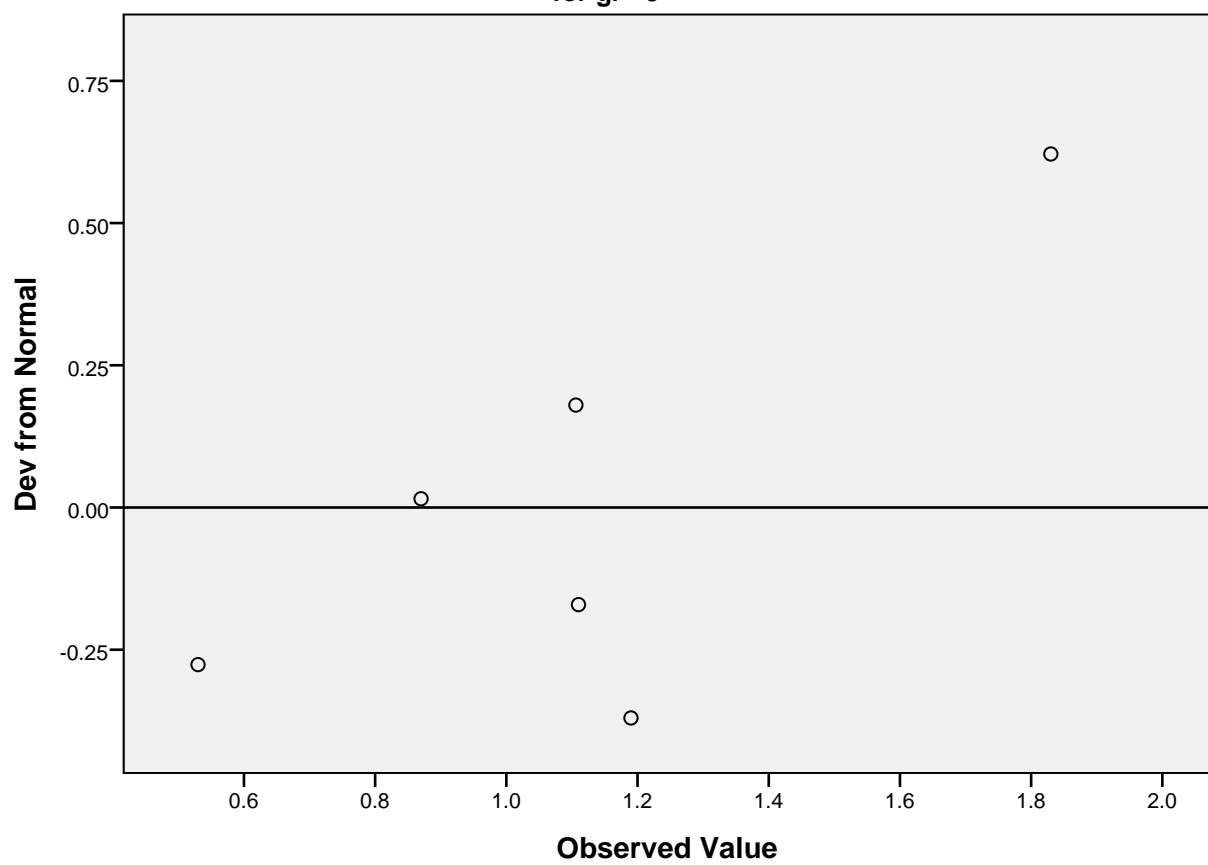
Detrended Normal Q-Q Plots

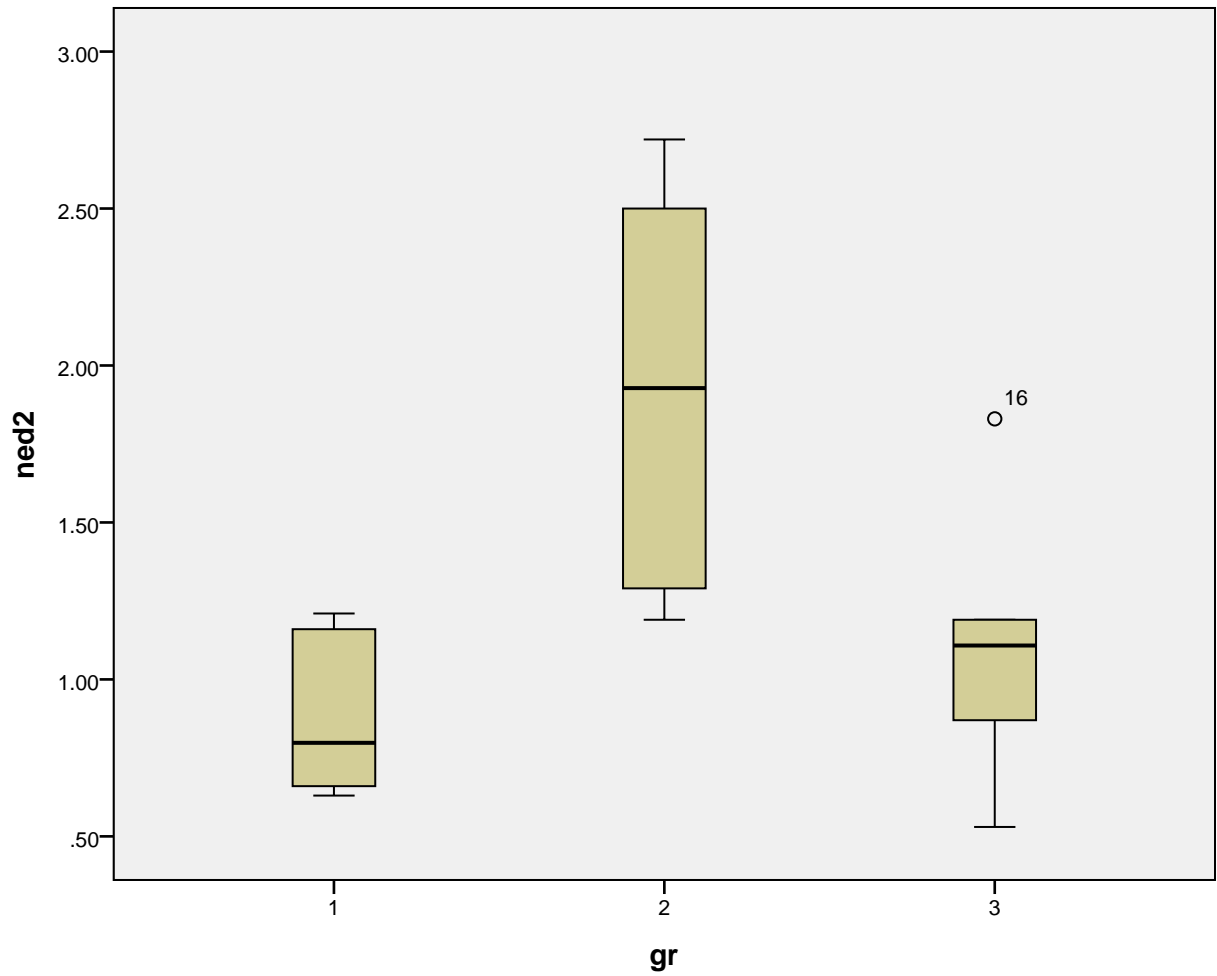




Detrended Normal Q-Q Plot of ned2

for gr= 3





ned4

Stem-and-Leaf Plots

ned4 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
2.00	0 .	88
1.00	1 .	6
3.00	2 .	345

Stem width: 1.00
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	Extremes	(=<2.21)
3.00	24 .	344
.00	24 .	
1.00	25 .	4
1.00	25 .	9

Stem width: .10
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 3

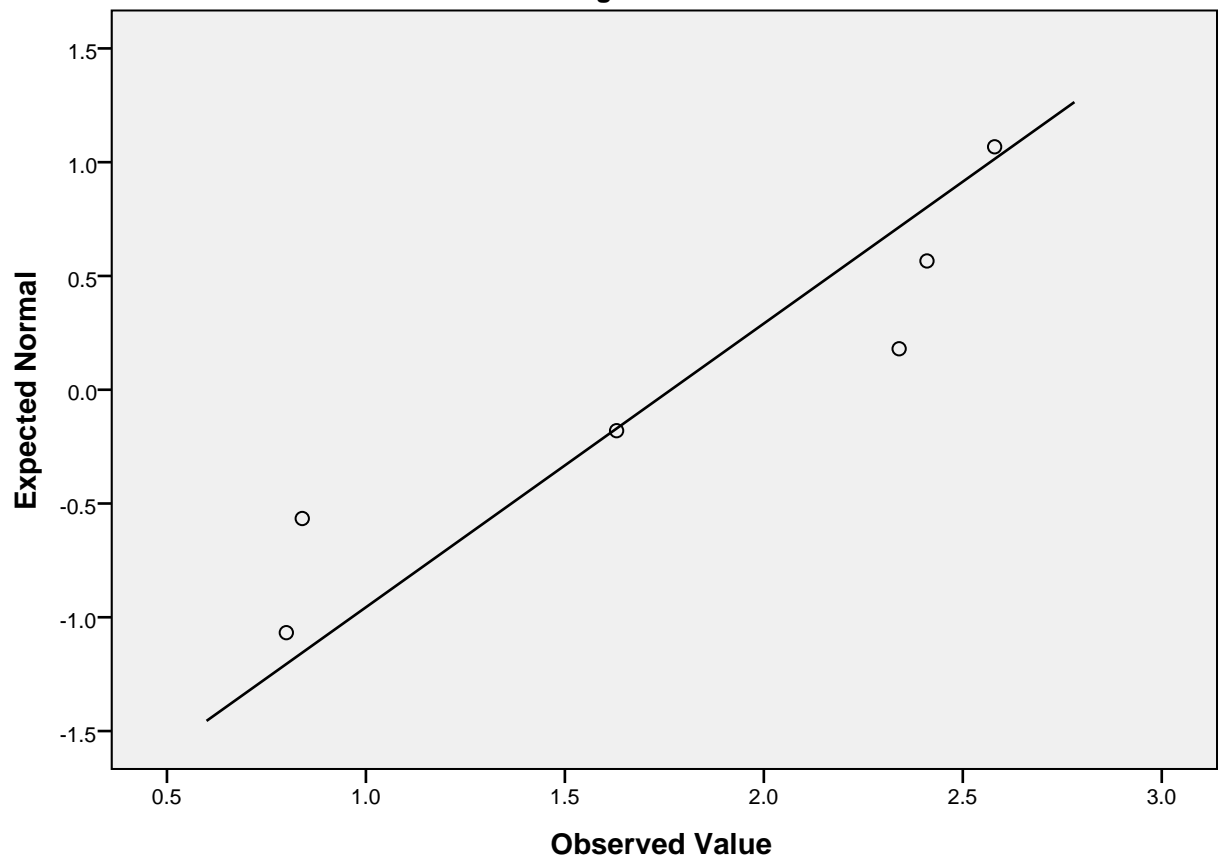
Frequency	Stem &	Leaf
2.00	0 .	79
2.00	1 .	22
2.00	1 .	55

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

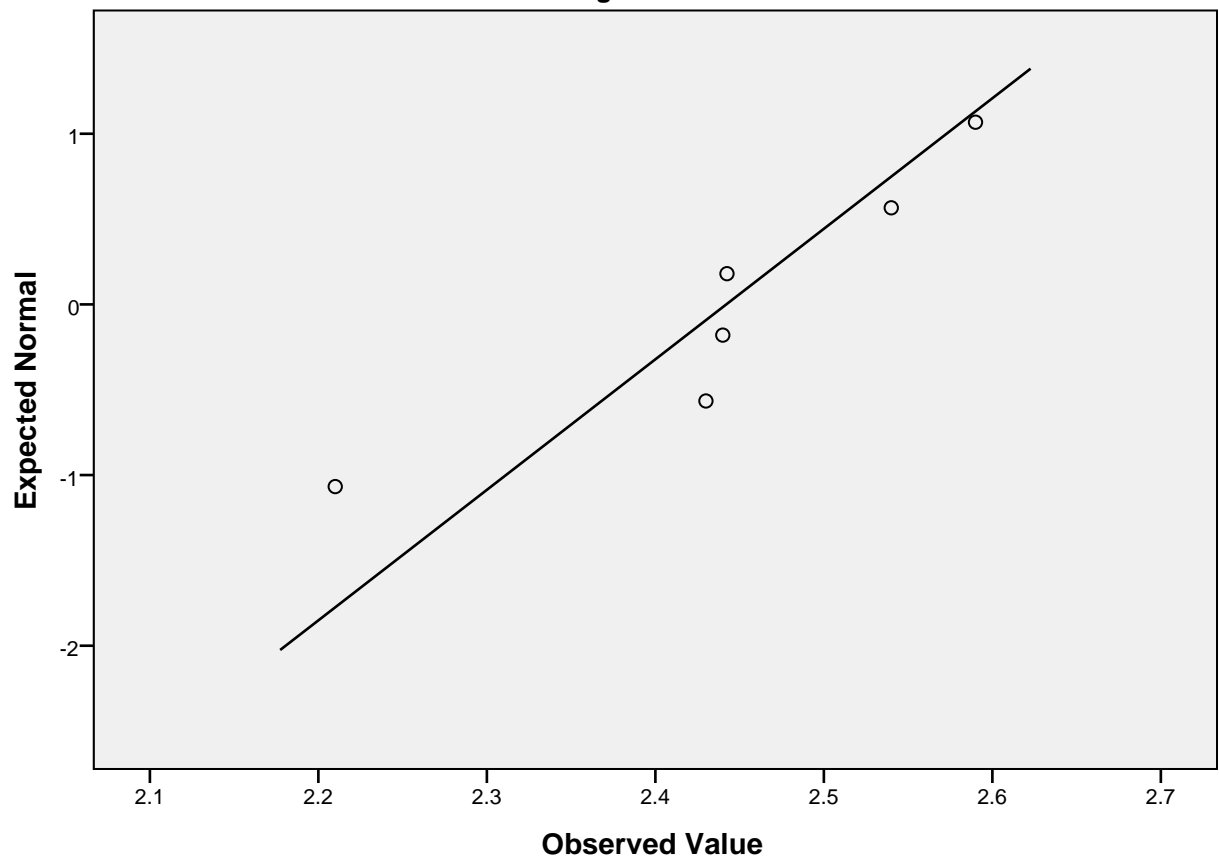
Normal Q-Q Plot of ned4

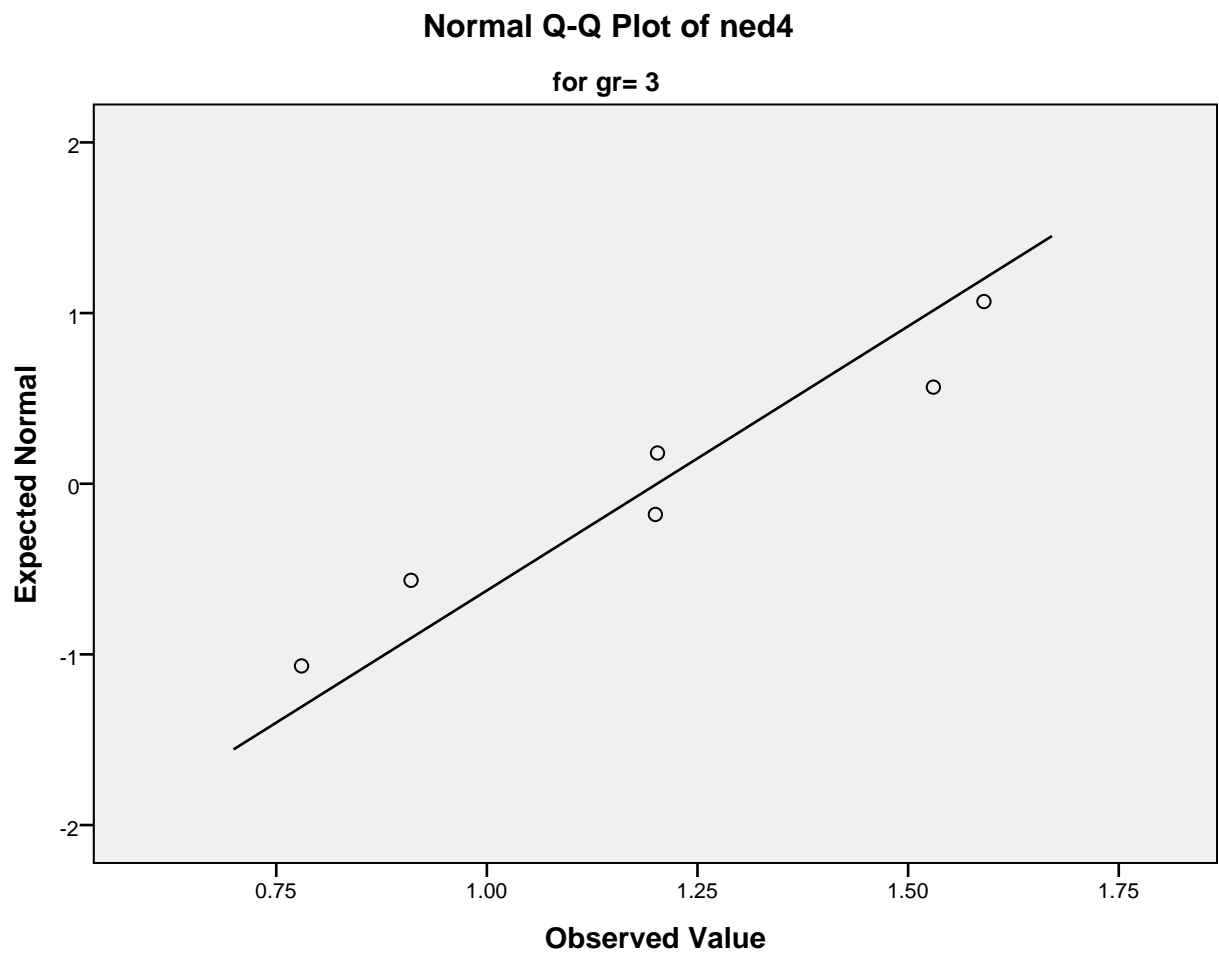
for gr= 1



Normal Q-Q Plot of ned4

for gr= 2

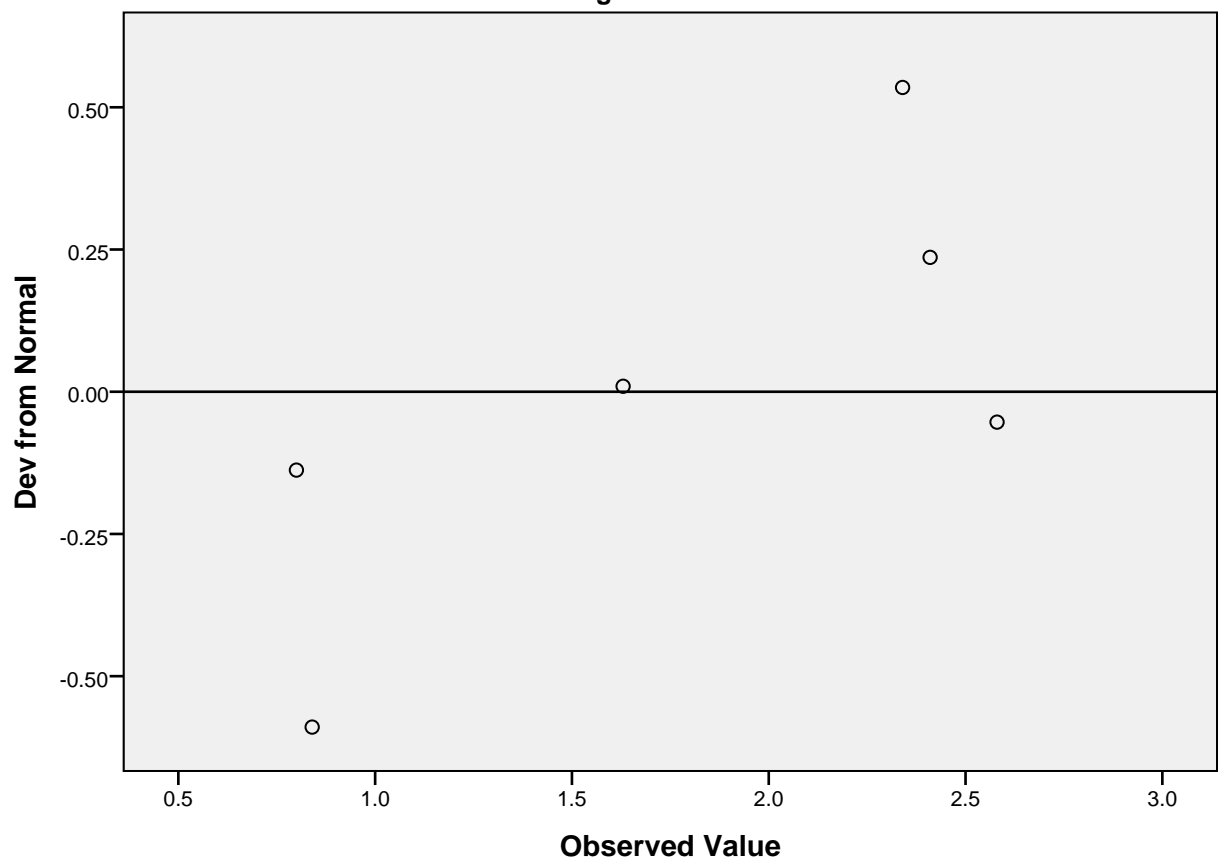




Detrended Normal Q-Q Plots

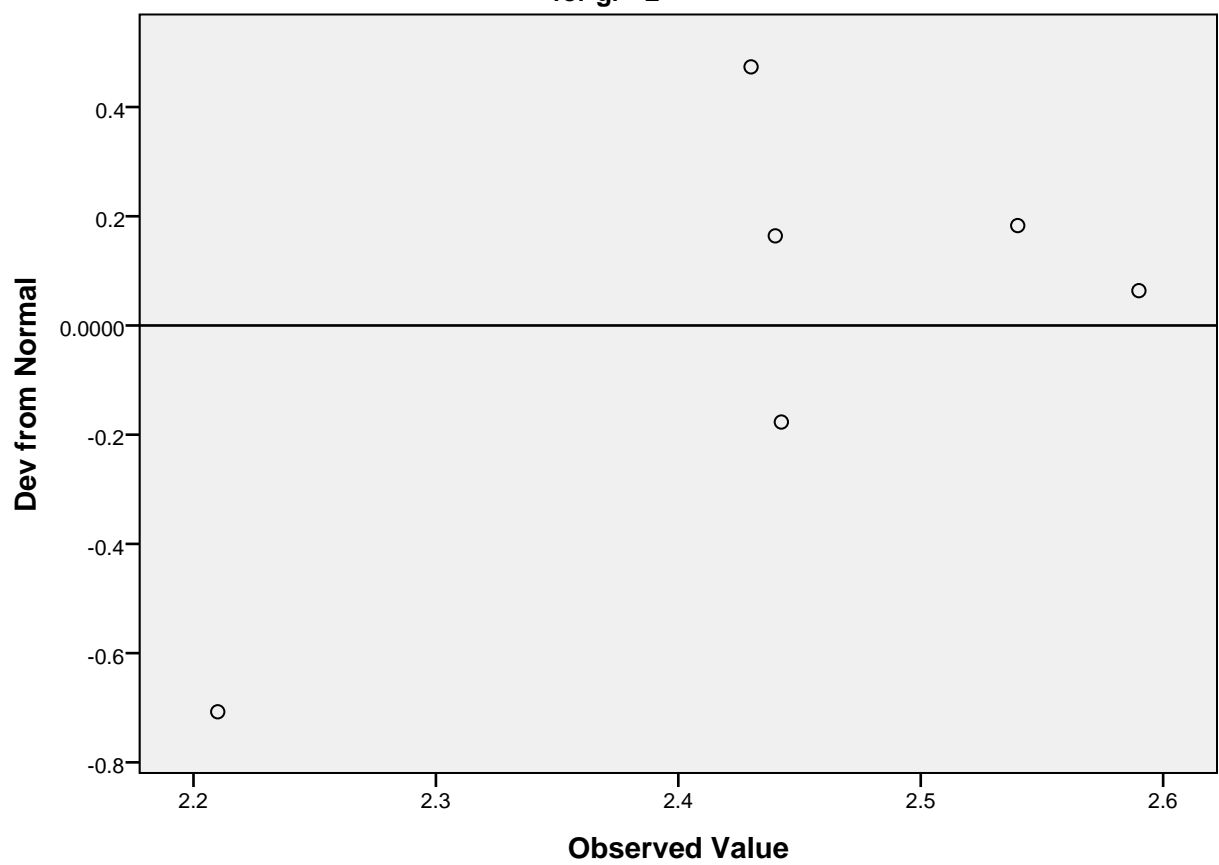
Detrended Normal Q-Q Plot of ned4

for gr= 1



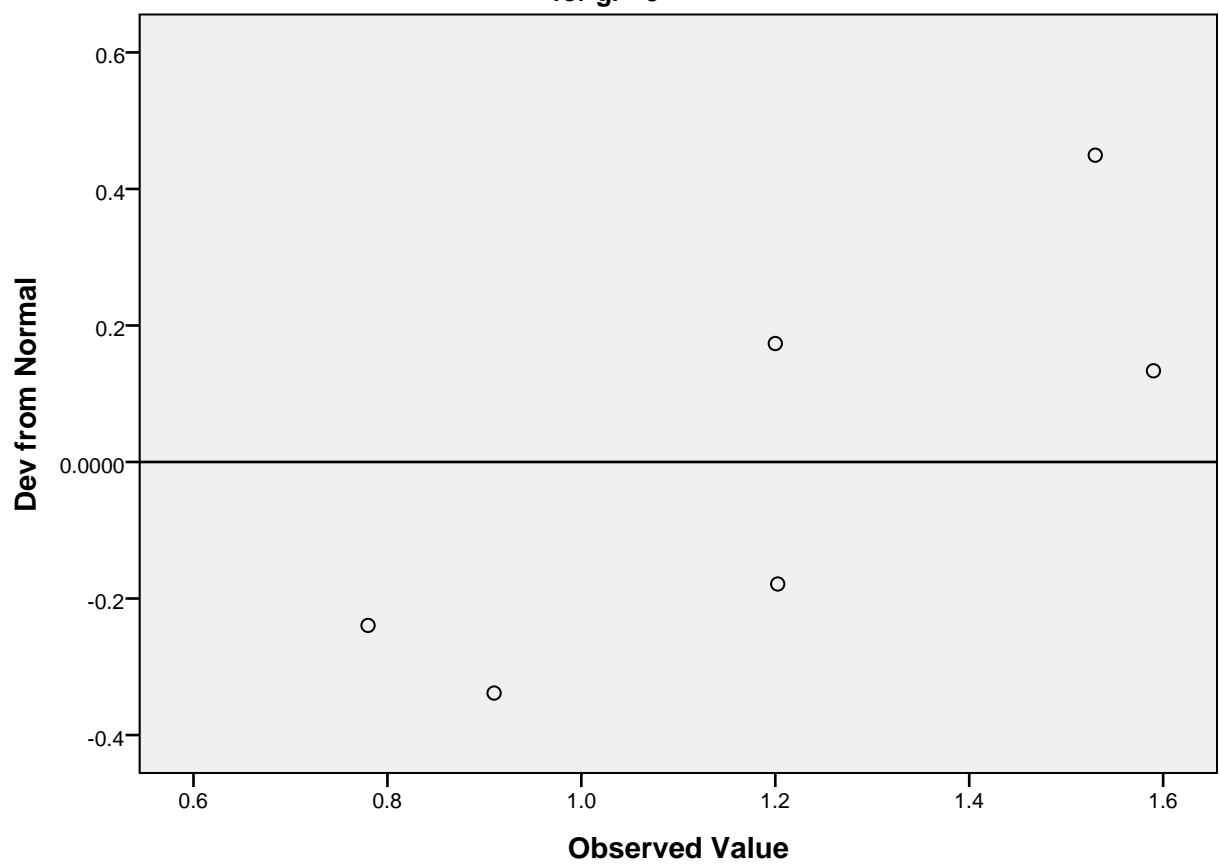
Detrended Normal Q-Q Plot of ned4

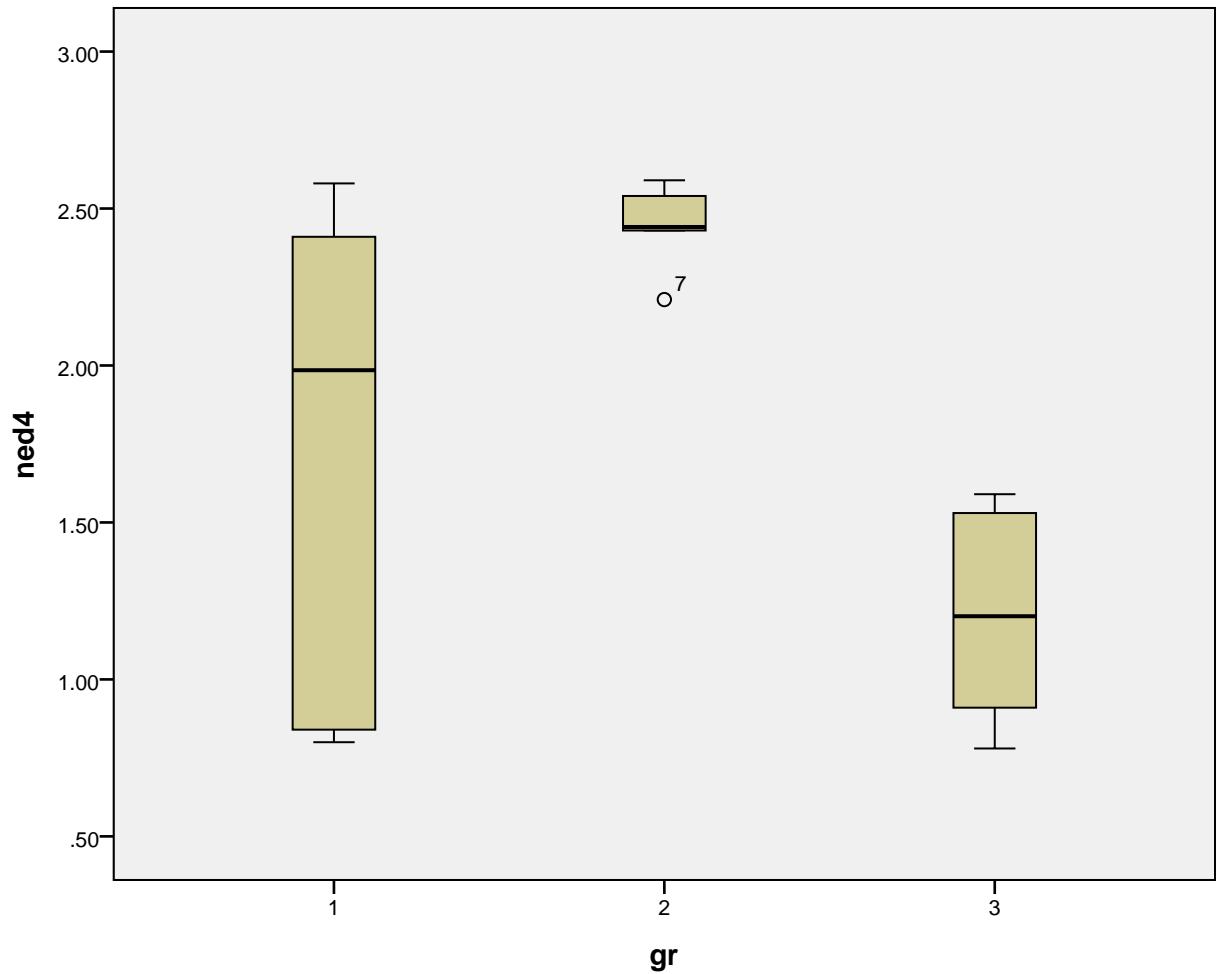
for gr= 2



Detrended Normal Q-Q Plot of ned4

for gr= 3





ned8

Stem-and-Leaf Plots

ned8 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
1.00	12 .	6
1.00	13 .	7
.00	14 .	
3.00	15 .	248
1.00	Extremes	(>=2.01)

Stem width: .10
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	2 .	4
3.00	2 .	588
2.00	3 .	02

Stem width: 1.00
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 3

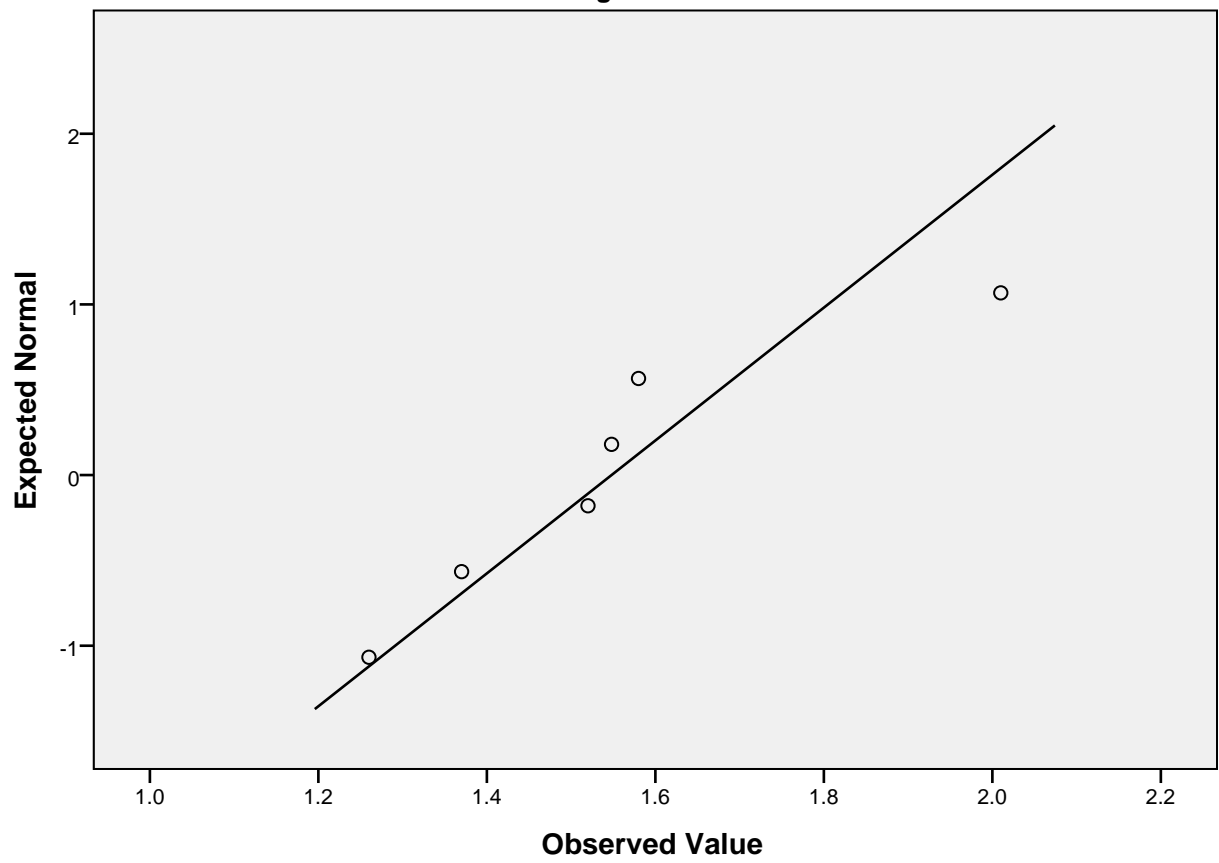
Frequency	Stem &	Leaf
2.00	0 .	99
3.00	1 .	113
1.00	1 .	5

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

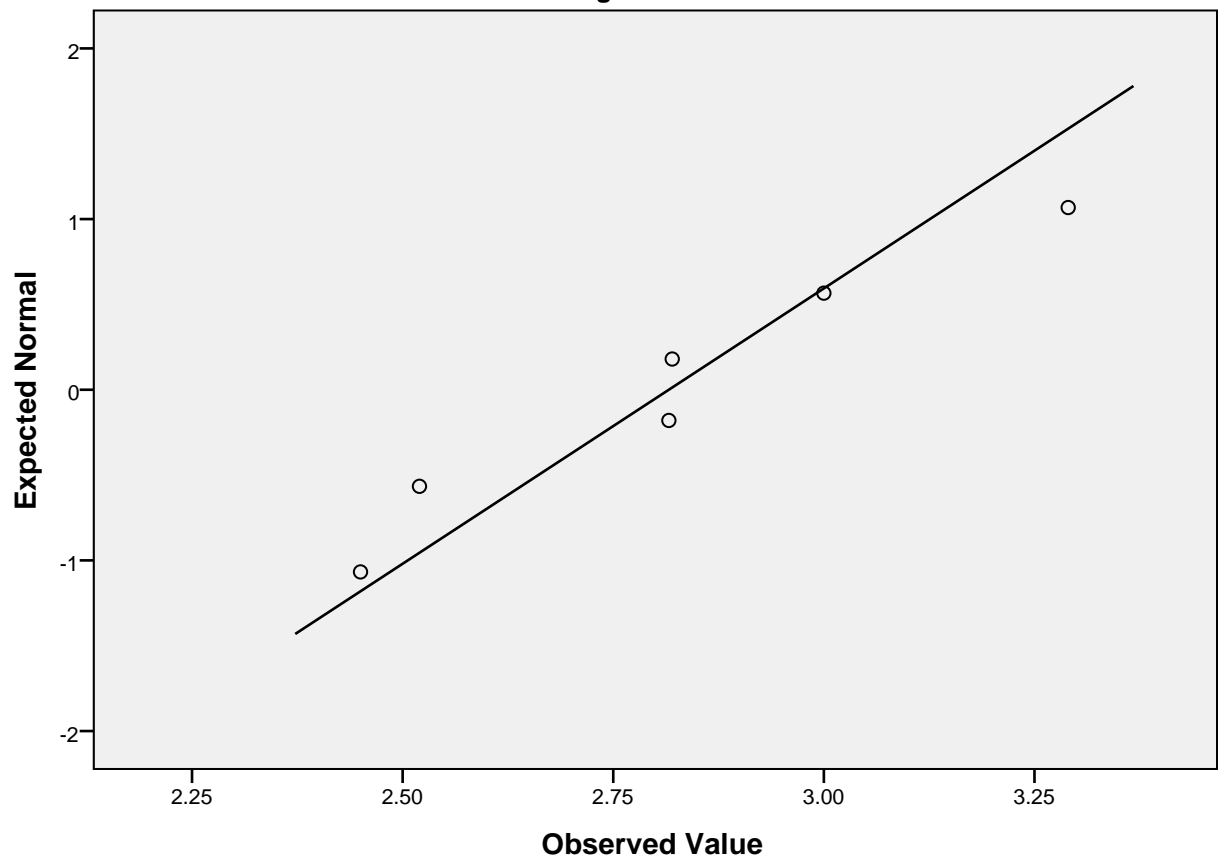
Normal Q-Q Plot of ned8

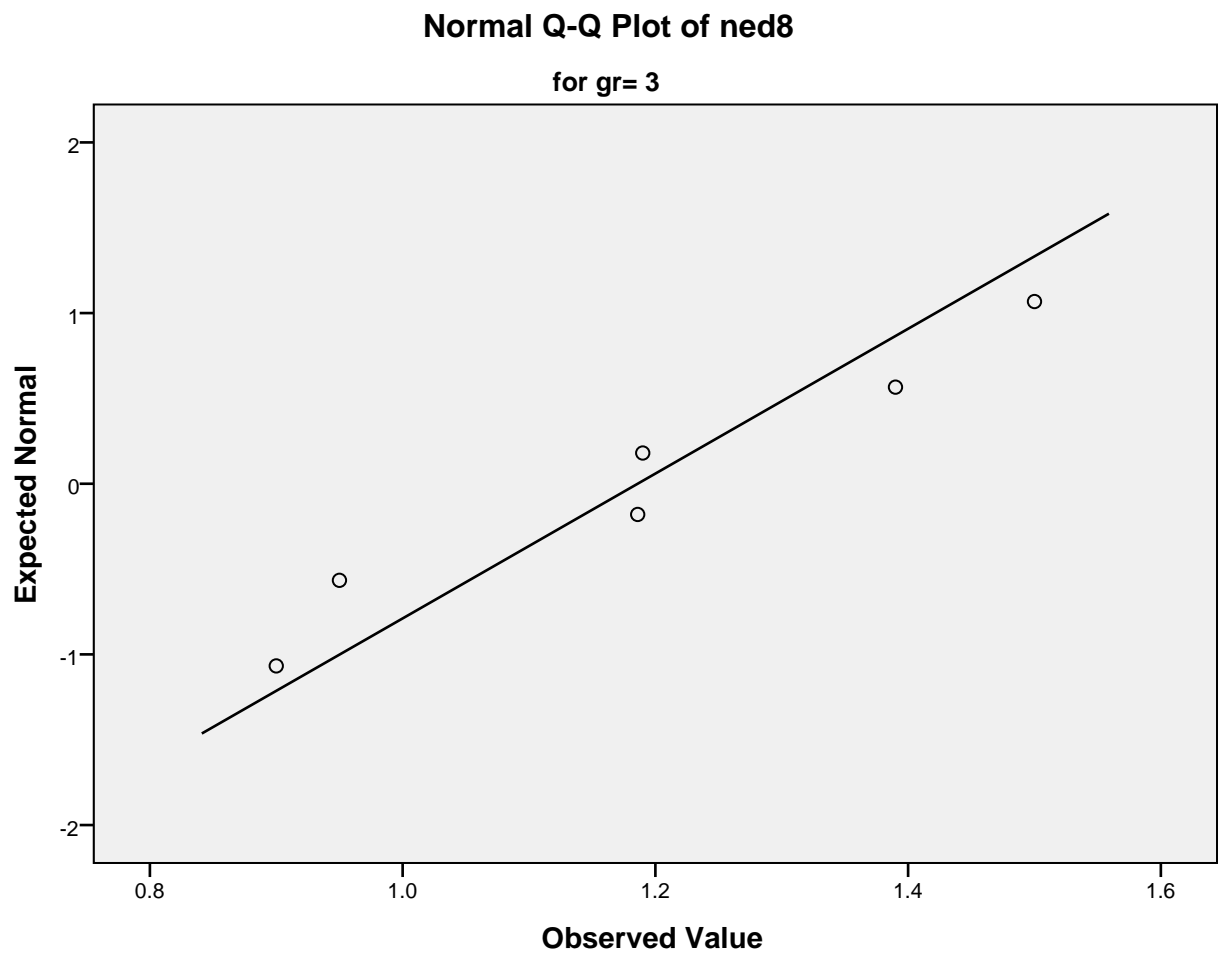
for gr= 1



Normal Q-Q Plot of ned8

for gr= 2

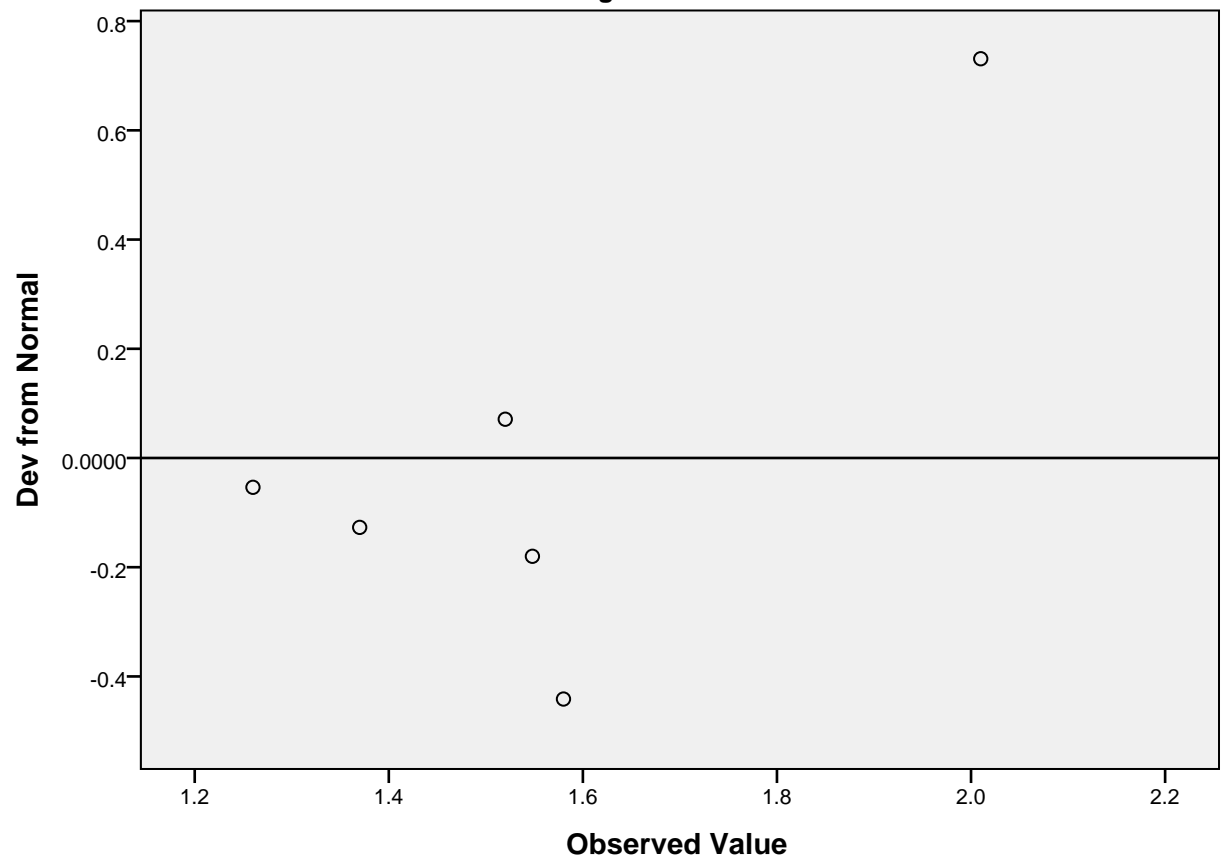




Detrended Normal Q-Q Plots

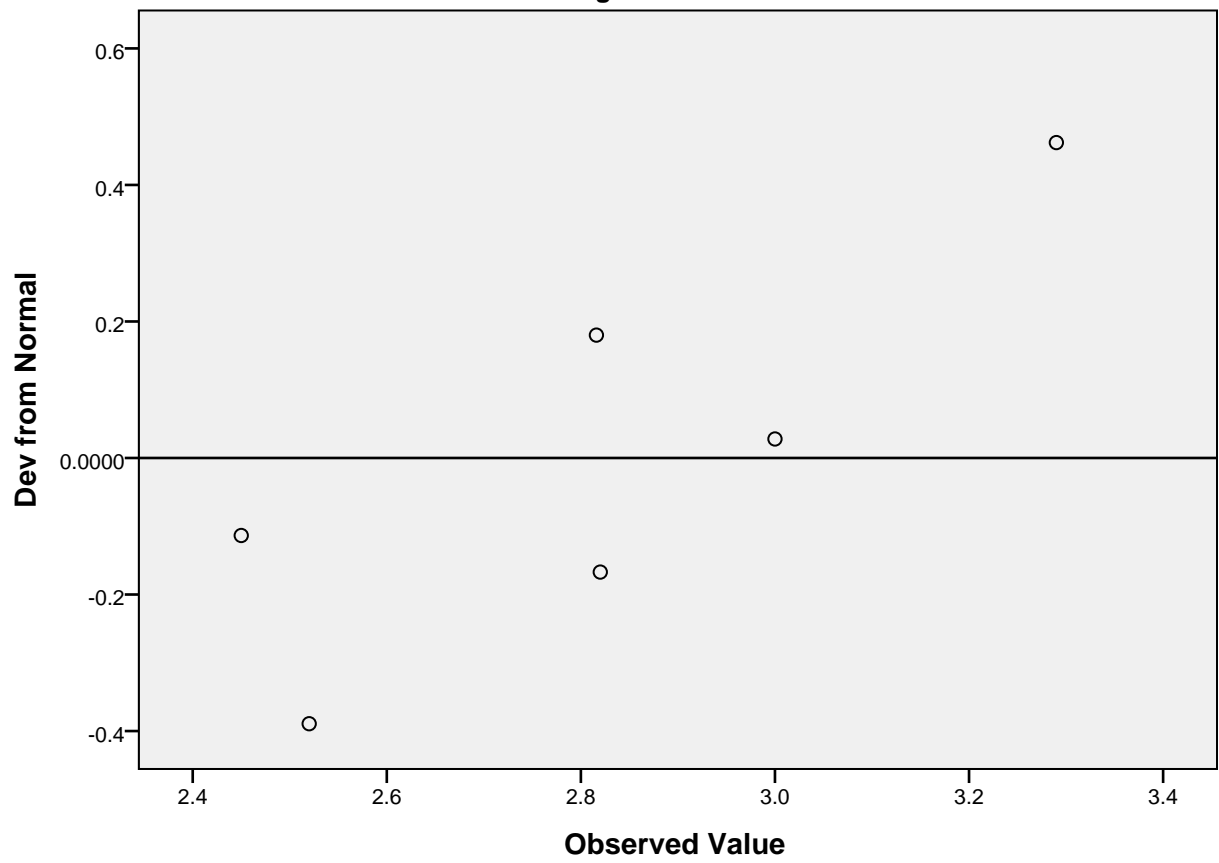
Detrended Normal Q-Q Plot of ned8

for gr= 1



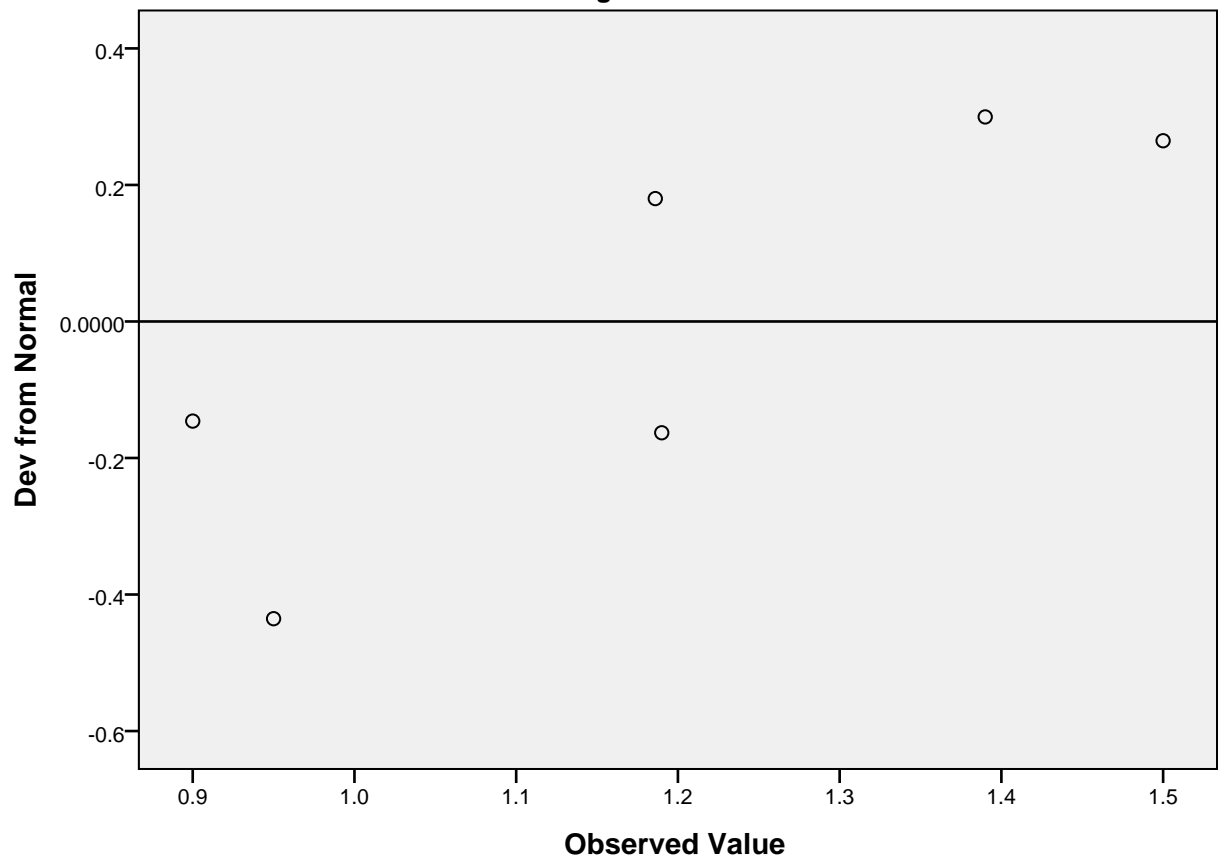
Detrended Normal Q-Q Plot of ned8

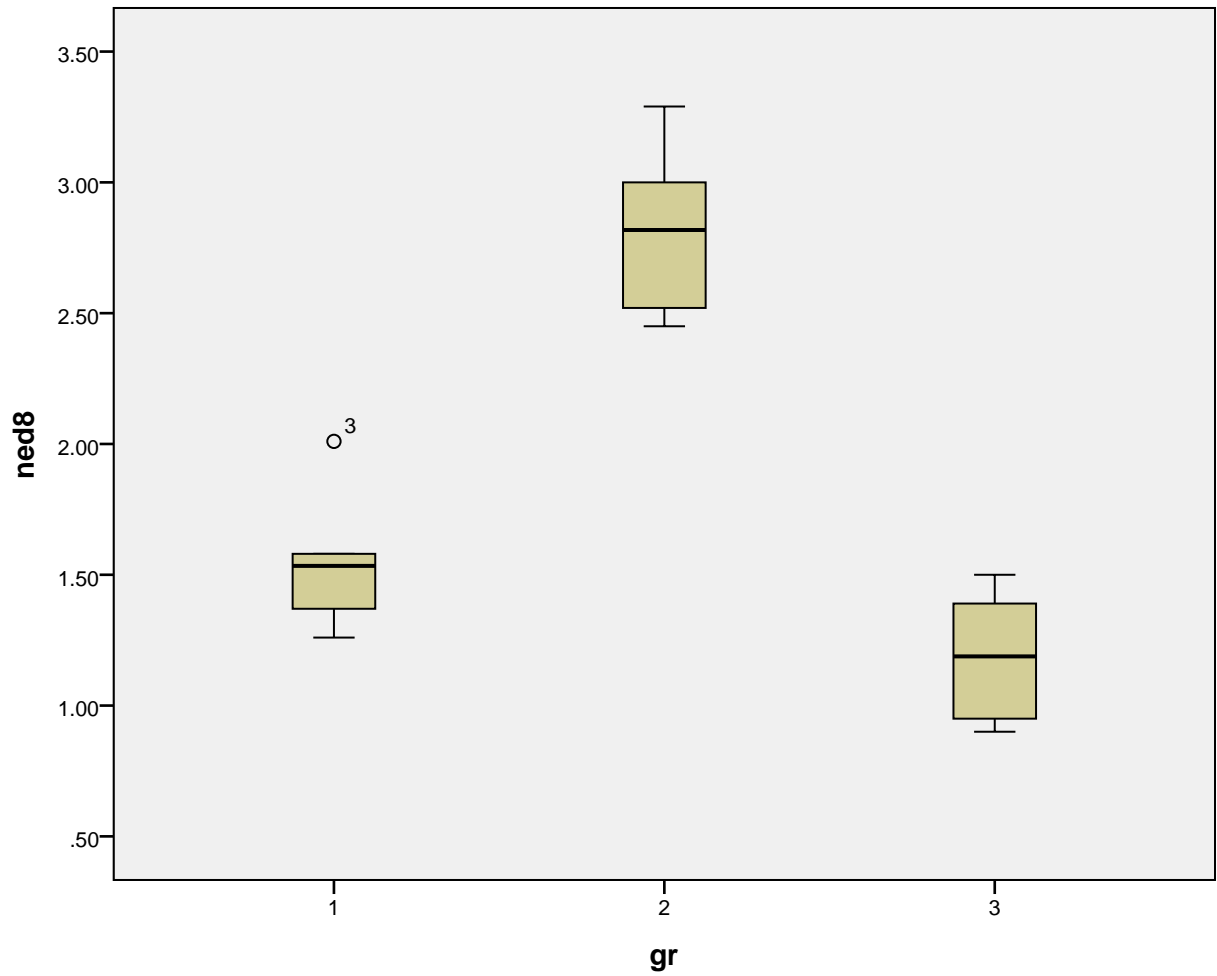
for gr= 2



Detrended Normal Q-Q Plot of ned8

for gr= 3





```
NPAR TESTS  
  /K-W=ned1 ned2 ned4 ned8 BY gr(1 3)  
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 22:58:37
Comments		
Input	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /K-W=ned1 ned2 ned4 ned8 BY gr (1 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.006
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet3]

Kruskal-Wallis Test

Ranks

gr		N	Mean Rank
ned1	1	6	10.33
	2	6	14.50
	3	6	3.67
	Total	18	
ned2	1	6	6.00
	2	6	14.92
	3	6	7.58
	Total	18	
ned4	1	6	9.00
	2	6	14.33
	3	6	5.17
	Total	18	
ned8	1	6	8.83
	2	6	15.50
	3	6	4.17
	Total	18	

Test Statistics^{a,b}

	ned1	ned2	ned4	ned8
Chi-Square	12.599	9.539	8.924	13.661
df	2	2	2	2
Asymp. Sig.	.002	.008	.012	.001

a. Kruskal Wallis Test
b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 2)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 22:59:08
Comments		
Input	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (1 2) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.006
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet3]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	4.50	27.00
	2	6	8.50	51.00
	Total	12		
ned2	1	6	3.67	22.00
	2	6	9.33	56.00
	Total	12		
ned4	1	6	4.67	28.00
	2	6	8.33	50.00
	Total	12		
ned8	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	6.000	1.000	7.000	.000
Wilcoxon W	27.000	22.000	28.000	21.000
Z	-1.928	-2.722	-1.761	-2.882
Asymp. Sig. (2-tailed)	.054	.006	.078	.004
Exact Sig. [2*(1-tailed Sig.)]	.065 ^a	.004 ^a	.093 ^a	.002 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 3)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created	11-Apr-2016 22:59:30	
Comments		
Input	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax	NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (1 3) /MISSING ANALYSIS.	
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.006
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet3]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	9.33	56.00
	3	6	3.67	22.00
	Total	12		
ned2	1	6	5.83	35.00
	3	6	7.17	43.00
	Total	12		
ned4	1	6	7.83	47.00
	3	6	5.17	31.00
	Total	12		
ned8	1	6	8.83	53.00
	3	6	4.17	25.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	1.000	14.000	10.000	4.000
Wilcoxon W	22.000	35.000	31.000	25.000
Z	-2.727	-.641	-1.281	-2.242
Asymp. Sig. (2-tailed)	.006	.522	.200	.025
Exact Sig. [2*(1-tailed Sig.)]	.004 ^a	.589 ^a	.240 ^a	.026 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(2 3)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 22:59:51
Comments		
Input	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	19
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (2 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.004
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet3]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned2	2	6	9.08	54.50
	3	6	3.92	23.50
	Total	12		
ned4	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned8	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	.000	2.500	.000	.000
Wilcoxon W	21.000	23.500	21.000	21.000
Z	-2.887	-2.486	-2.882	-2.882
Asymp. Sig. (2-tailed)	.004	.013	.004	.004
Exact Sig. [2*(1-tailed Sig.)]	.002 ^a	.009 ^a	.002 ^a	.002 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

```

GET DATA
  /TYPE=XLS
  /FILE='C:\Users\vlada\Desktop\jelena rad #3\output poredjenje grupa JN.xls'
  /SHEET=name 'Spp1'
  /CELLRANGE=full
  /READNAMES=on
  /ASSUMEDSTRWIDTH=32767.
EXECUTE.
DATASET NAME DataSet2 WINDOW=FRONT.
EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr
  /PLOT BOXPLOT STEMLEAF NPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.

```

Explore

Notes

Output Created		11-Apr-2016 23:06:28
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=ned1 ned2 ned4 ned8 BY gr /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00 00:00:04.087
	Elapsed Time	00 00:00:03.970

[DataSet2]

gr

Case Processing Summary

gr		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
ned1	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned2	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned4	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%
ned8	1	6	100.0%	0	.0%	6	100.0%
	2	6	100.0%	0	.0%	6	100.0%
	3	6	100.0%	0	.0%	6	100.0%

Descriptives

gr			Statistic	Std. Error
ned1	1	Mean	-.4200	.26481
		95% Confidence Interval for Mean	Lower Bound Upper Bound	-1.1007 .2607
		5% Trimmed Mean	-.4033	
		Median	-.4200	
		Variance	.421	
		Std. Deviation	.64866	
		Minimum	-1.44	
		Maximum	.30	
		Range	1.74	
		Interquartile Range	1.19	
		Skewness	-.501	.845
		Kurtosis	-.142	1.741
	2	Mean	1.5858	.31412
		95% Confidence Interval for Mean	Lower Bound Upper Bound	.7784 2.3933
		5% Trimmed Mean	1.5893	
		Median	1.5875	
		Variance	.592	
		Std. Deviation	.76943	
		Minimum	.61	
		Maximum	2.50	
		Range	1.89	
		Interquartile Range	1.62	
		Skewness	-.041	.845
		Kurtosis	-1.664	1.741

Descriptives

gr				Statistic	Std. Error
ned1	3	Mean		.2000	.08614
		95% Confidence Interval for Mean	Lower Bound	-.0214	
			Upper Bound	.4214	
		5% Trimmed Mean		.2061	
		Median		.2000	
		Variance		.045	
		Std. Deviation		.21100	
		Minimum		-.15	
		Maximum		.44	
		Range		.59	
		Interquartile Range		.35	
		Skewness		-.725	
		Kurtosis		.696	1.741
		ned2	1	Mean	
95% Confidence Interval for Mean	Lower Bound			-2.9863	
	Upper Bound			-1.2417	
5% Trimmed Mean				-2.1333	
Median				-1.9820	
Variance				.691	
Std. Deviation				.83121	
Minimum				-3.05	
Maximum				-.83	
Range				2.22	
Interquartile Range				1.43	
Skewness				.334	.845
Kurtosis				-.220	1.741

Descriptives

gr				Statistic	Std. Error
ned2	2	Mean		2.9100	.37583
		95% Confidence Interval for Mean	Lower Bound	1.9439	
			Upper Bound	3.8761	
		5% Trimmed Mean		2.9356	
		Median		2.9100	
		Variance		.847	
		Std. Deviation		.92059	
		Minimum		1.28	
		Maximum		4.08	
		Range		2.80	
		Interquartile Range		1.05	
		Skewness		-1.012	
		Kurtosis		2.500	
					.845
					1.741
	3	Mean		-.3720	.38555
		95% Confidence Interval for Mean	Lower Bound	-1.3631	
			Upper Bound	.6191	
		5% Trimmed Mean		-.3783	
		Median		-.3710	
		Variance		.892	
		Std. Deviation		.94440	
		Minimum		-1.54	
		Maximum		.91	
		Range		2.45	
		Interquartile Range		1.89	
		Skewness		.093	
		Kurtosis		-1.291	
					.845
					1.741

Descriptives

gr				Statistic	Std. Error
ned4	1	Mean		-.9383	.45830
		95% Confidence Interval for Mean	Lower Bound	-2.1164	
			Upper Bound	.2398	
		5% Trimmed Mean		-.8598	
		Median		-.4150	
		Variance		1.260	
		Std. Deviation		1.12259	
		Minimum		-3.09	
		Maximum		-.20	
		Range		2.89	
		Interquartile Range		1.48	
		Skewness		-1.904	.845
		Kurtosis		3.499	1.741
	2	Mean		2.4258	.17606
		95% Confidence Interval for Mean	Lower Bound	1.9733	
			Upper Bound	2.8784	
		5% Trimmed Mean		2.4365	
		Median		2.4275	
		Variance		.186	
		Std. Deviation		.43126	
		Minimum		1.71	
		Maximum		2.95	
		Range		1.24	
		Interquartile Range		.69	
		Skewness		-.695	.845
		Kurtosis		.887	1.741

Descriptives

gr			Statistic	Std. Error
ned4	3	Mean	-.1260	.51950
		95% Confidence Interval for Mean	Lower Bound	-1.4614
			Upper Bound	1.2094
		5% Trimmed Mean	-.0900	
		Median	-.1280	
		Variance	1.619	
		Std. Deviation	1.27250	
		Minimum	-2.20	
		Maximum	1.30	
		Range	3.50	
		Interquartile Range	2.20	
		Skewness	-.646	.845
		Kurtosis	.383	1.741
ned8	1	Mean	.2220	.19688
		95% Confidence Interval for Mean	Lower Bound	-.2841
			Upper Bound	.7281
		5% Trimmed Mean	.2278	
		Median	.3060	
		Variance	.233	
		Std. Deviation	.48226	
		Minimum	-.39	
		Maximum	.73	
		Range	1.12	
		Interquartile Range	1.03	
		Skewness	-.378	.845
		Kurtosis	-1.905	1.741

Descriptives

gr				Statistic	Std. Error
ned8	2	Mean		1.2560	.08143
		95% Confidence Interval for Mean	Lower Bound	1.0467	
			Upper Bound	1.4653	
		5% Trimmed Mean		1.2550	
		Median		1.2580	
		Variance		.040	
		Std. Deviation		.19946	
		Minimum		1.01	
		Maximum		1.52	
		Range		.51	
		Interquartile Range		.40	
		Skewness		.047	
		Kurtosis		-1.424	
	3	Mean		.7320	.49413
		95% Confidence Interval for Mean	Lower Bound	-.5382	
			Upper Bound	2.0022	
		5% Trimmed Mean		.7689	
		Median		.7310	
		Variance		1.465	
		Std. Deviation		1.21036	
		Minimum		-1.29	
		Maximum		2.09	
		Range		3.38	
		Interquartile Range		1.99	
		Skewness		-.765	
		Kurtosis		.797	

Tests of Normality

gr	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ned1	1	6	.200 [*]	.931	6	.588
	2	6	.200 [*]	.914	6	.465
	3	6	.200 [*]	.931	6	.585
ned2	1	6	.200 [*]	.913	6	.459
	2	6	.036 [*]	.879	6	.262
	3	6	.200 [*]	.945	6	.698
ned4	1	6	.031 [*]	.731	6	.013
	2	6	.200 [*]	.946	6	.710
	3	6	.200 [*]	.931	6	.584
ned8	1	6	.200 [*]	.887	6	.303
	2	6	.200 [*]	.939	6	.649
	3	6	.200 [*]	.925	6	.542

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

ned1

Stem-and-Leaf Plots

ned1 Stem-and-Leaf Plot for
gr= 1

```

Frequency      Stem & Leaf

      1.00      -1 .  4
      3.00      -0 .  447
      2.00       0 .  23

Stem width:      1.00
Each leaf:      1 case(s)

```

ned1 Stem-and-Leaf Plot for
gr= 2

```

Frequency      Stem & Leaf

      2.00       0 .  68

```

2.00	1 . 55
2.00	2 . 35

Stem width: 1.00
Each leaf: 1 case(s)

ned1 Stem-and-Leaf Plot for
gr= 3

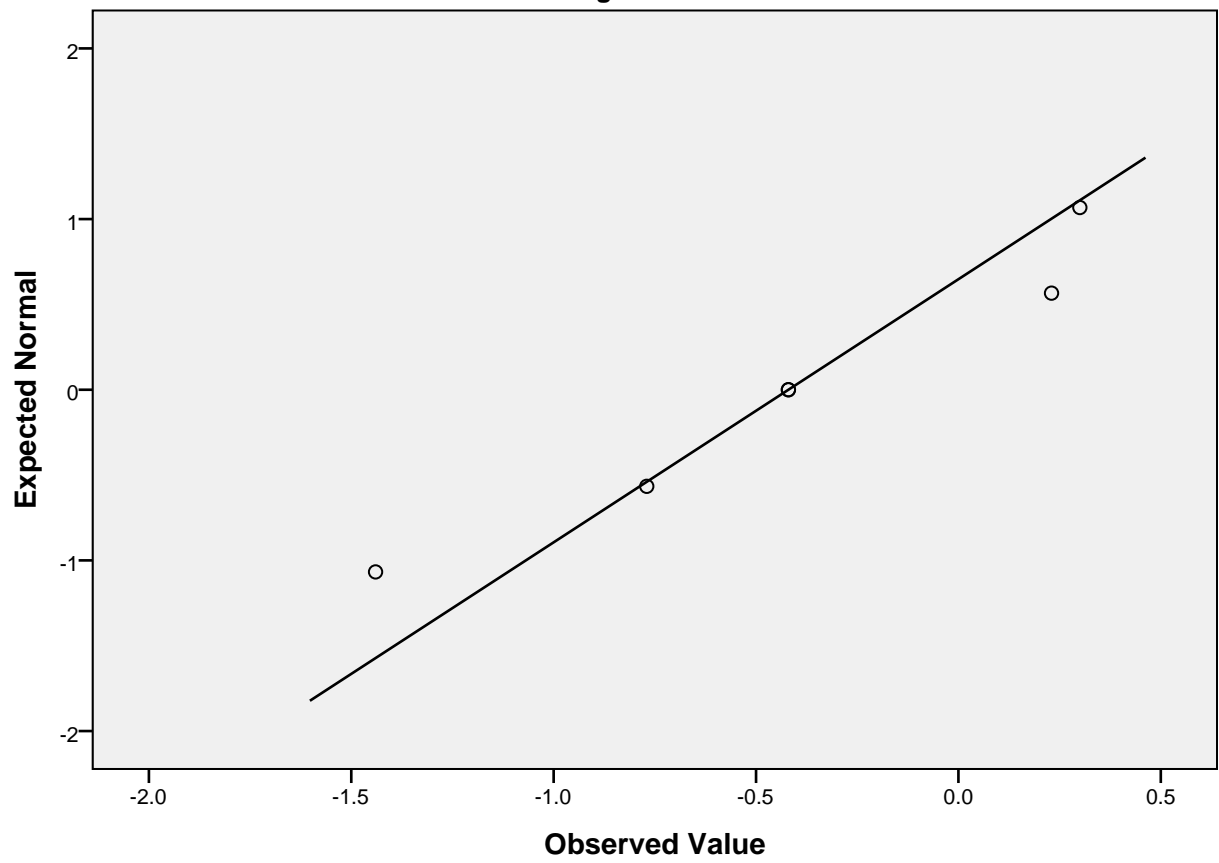
Frequency	Stem & Leaf
1.00	-0 . 1
5.00	0 . 12234

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

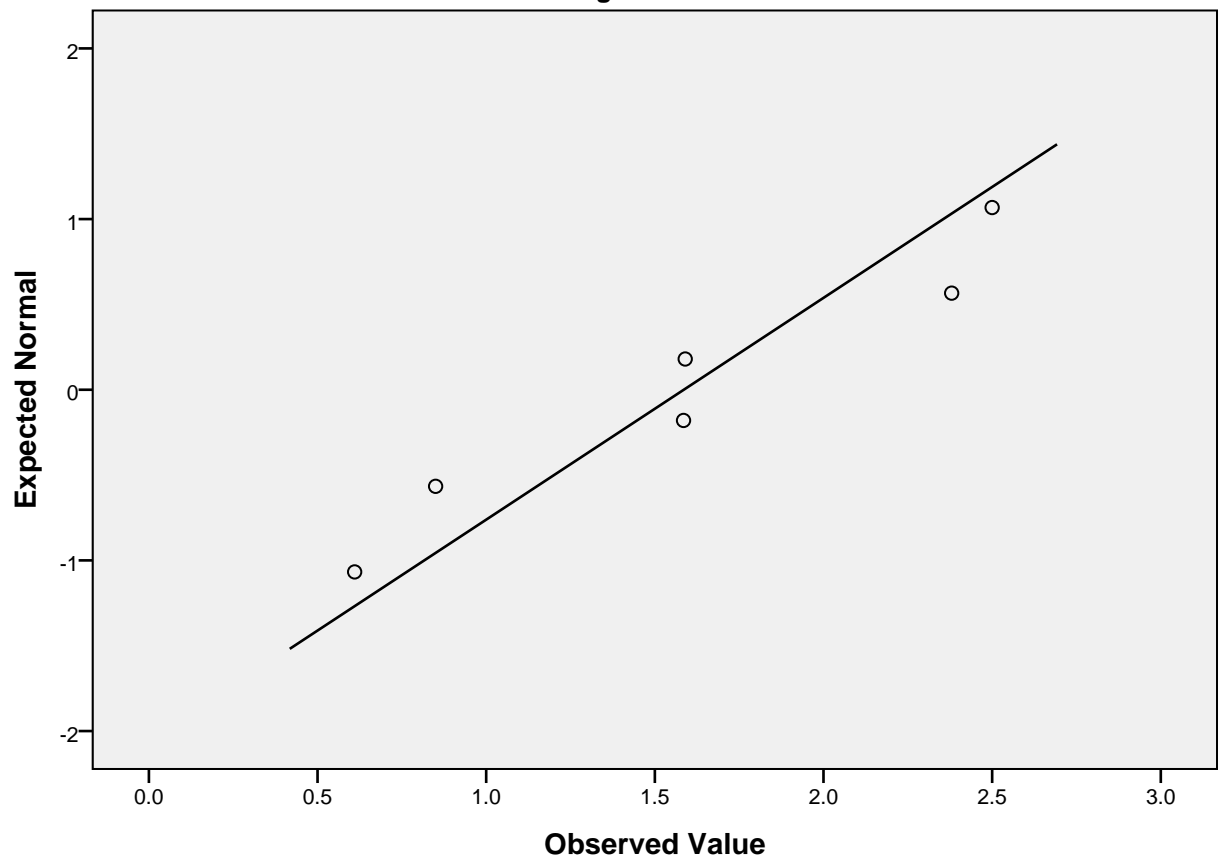
Normal Q-Q Plot of ned1

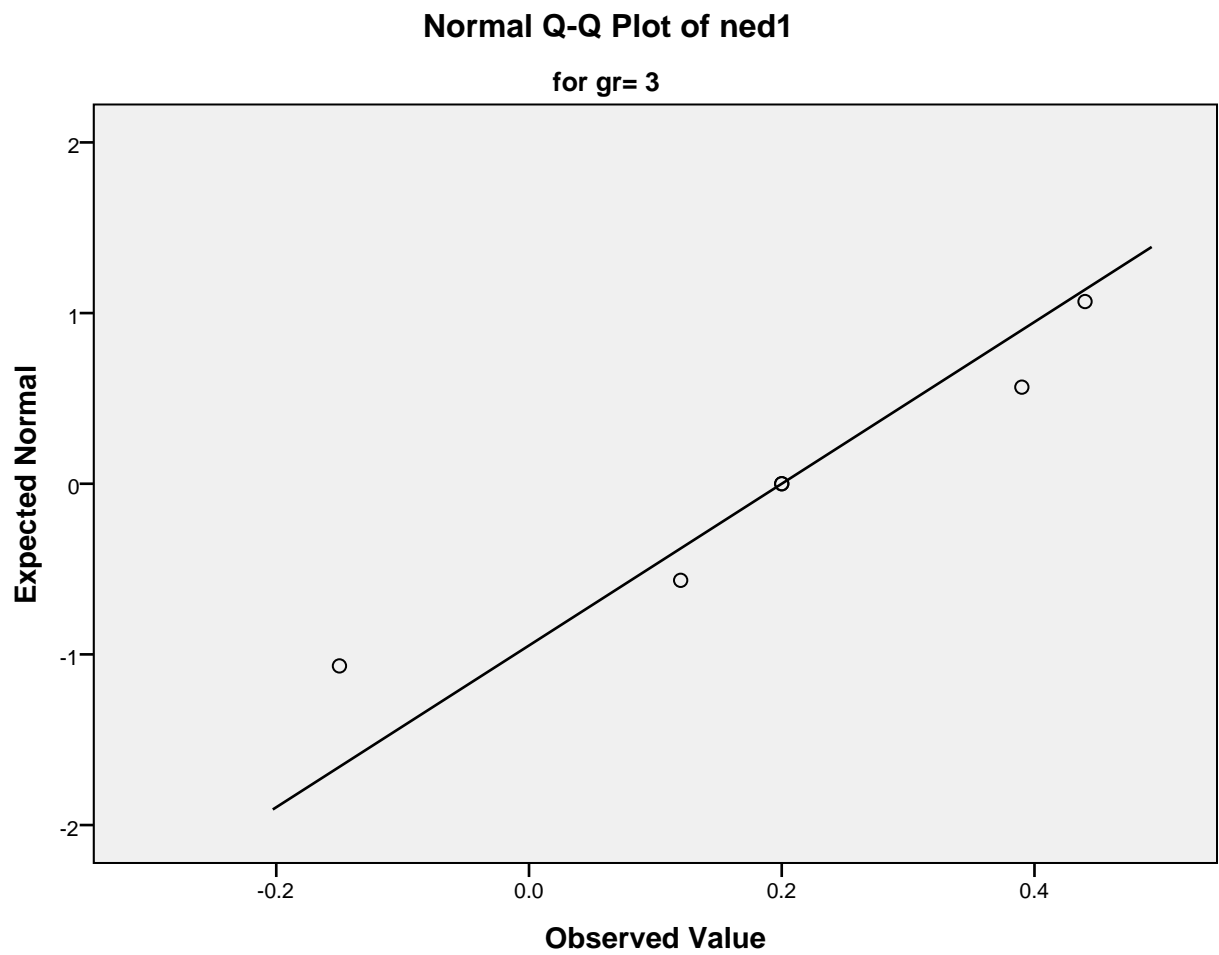
for gr= 1



Normal Q-Q Plot of ned1

for gr= 2

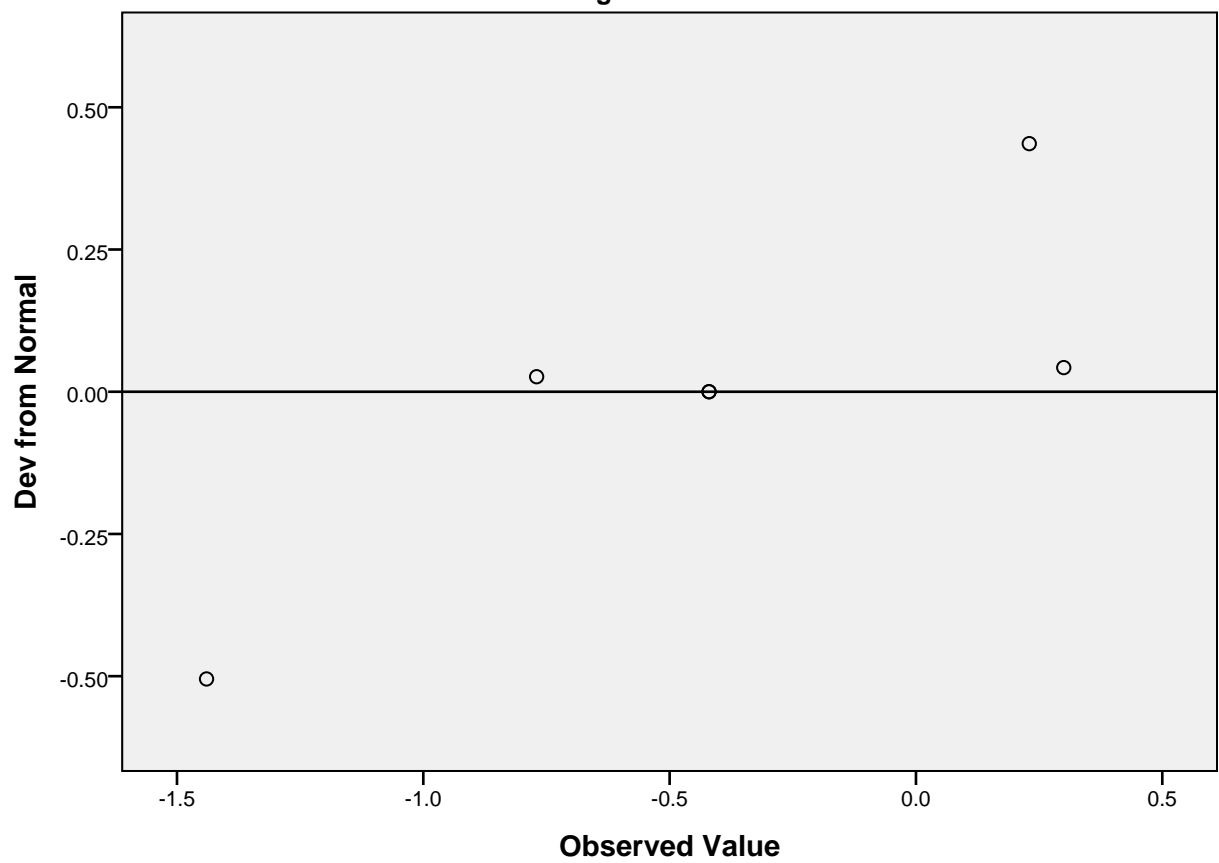




Detrended Normal Q-Q Plots

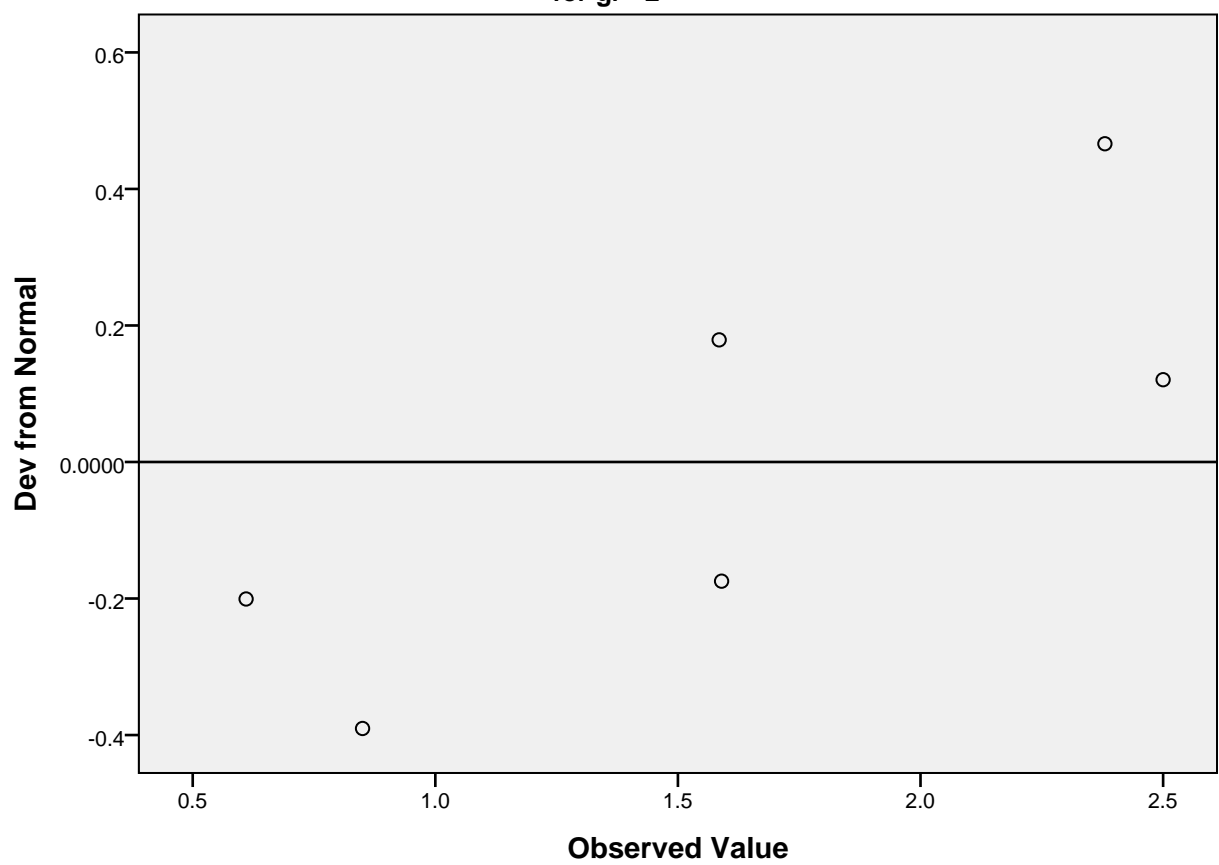
Detrended Normal Q-Q Plot of ned1

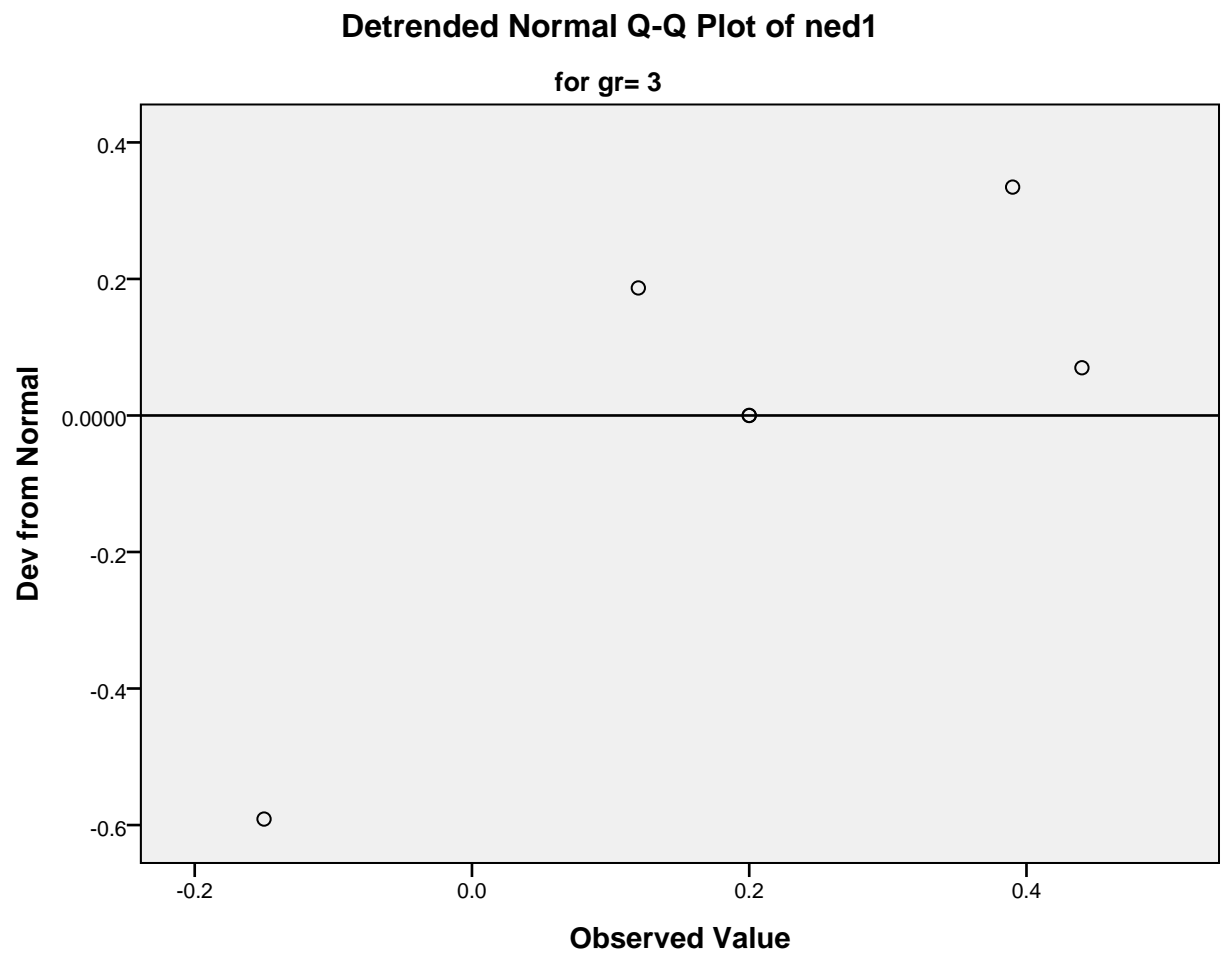
for gr= 1

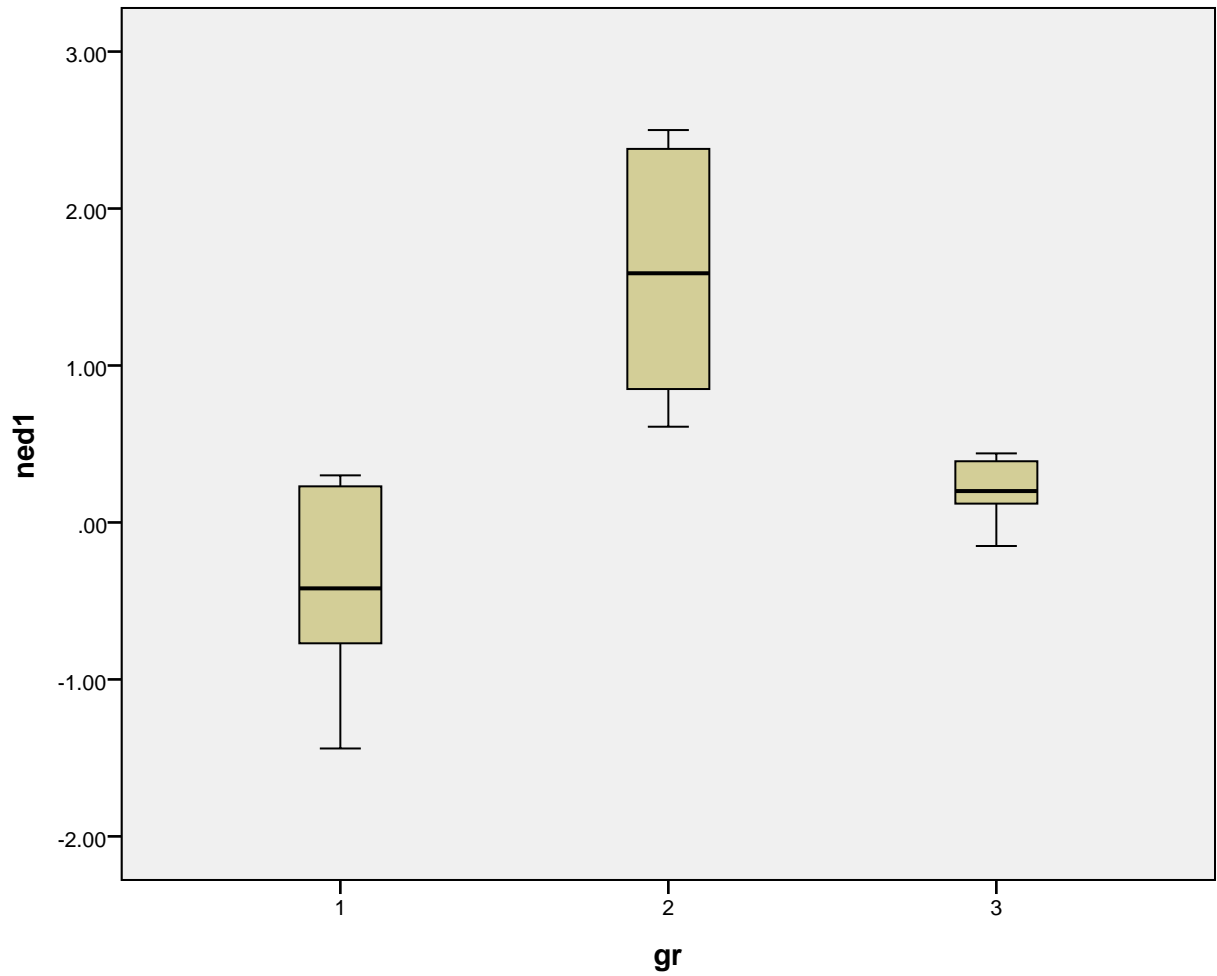


Detrended Normal Q-Q Plot of ned1

for gr= 2







ned2

Stem-and-Leaf Plots

ned2 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
2.00	-3 .	00
1.00	-2 .	1
2.00	-1 .	88
1.00	-0 .	8

Stem width: 1.00
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	Extremes	(= 1.3)
3.00	2 .	999
1.00	3 .	3
1.00	Extremes	(≥ 4.1)

Stem width: 1.00
Each leaf: 1 case(s)

ned2 Stem-and-Leaf Plot for
gr= 3

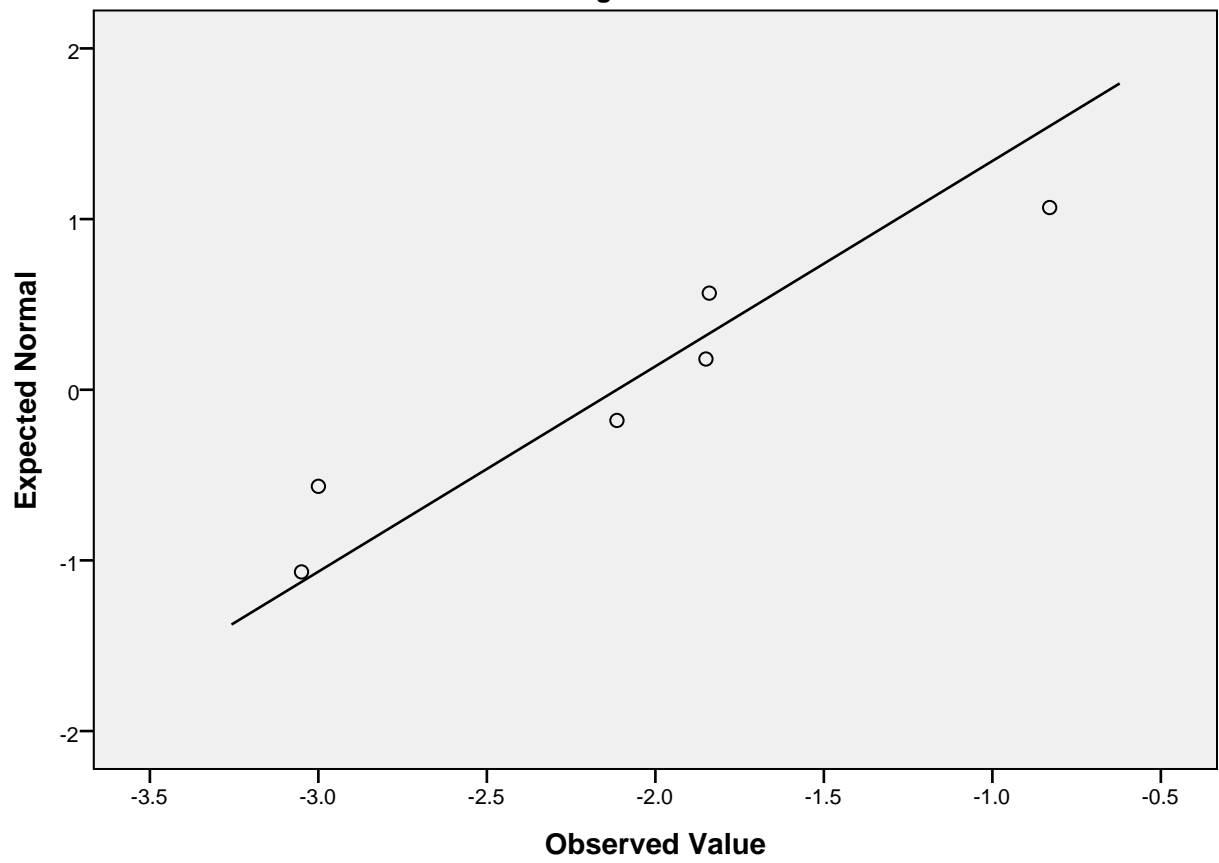
Frequency	Stem &	Leaf
2.00	-1 .	25
2.00	-0 .	33
2.00	0 .	49

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

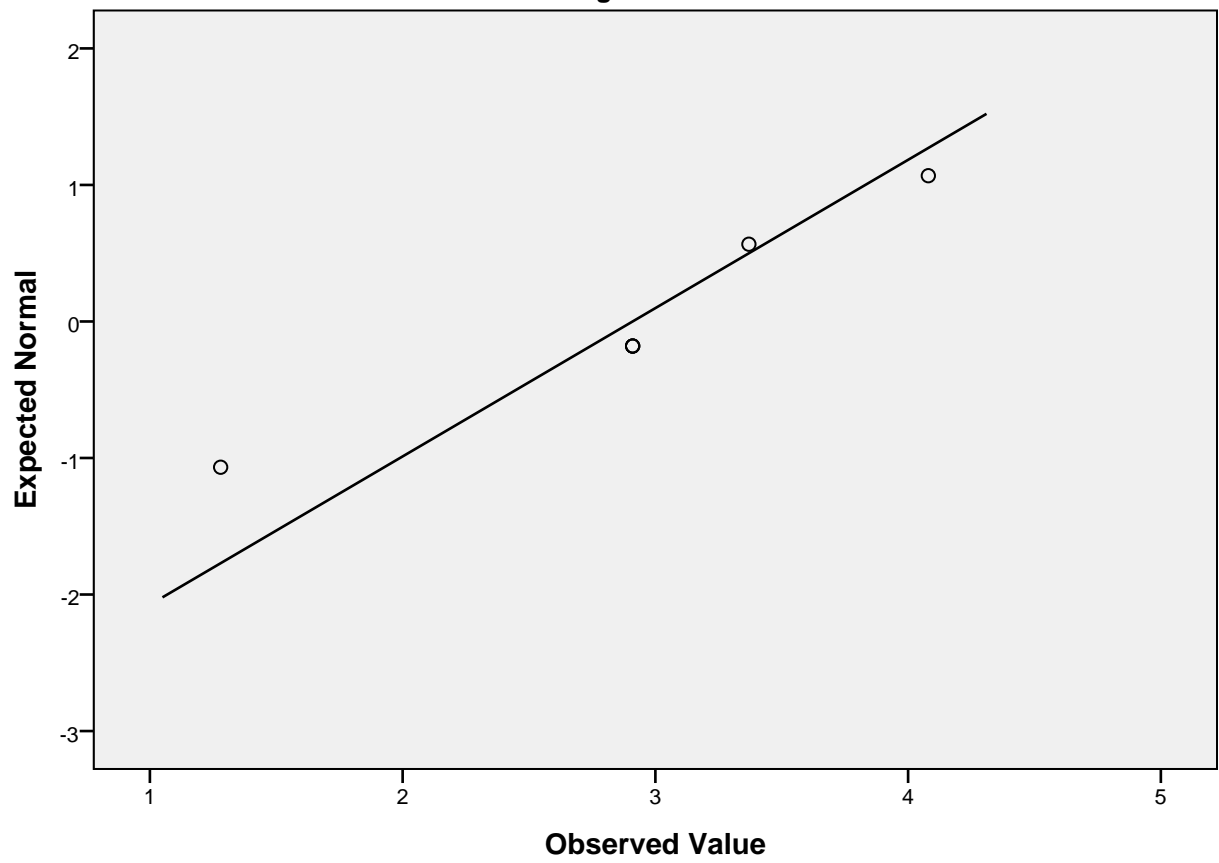
Normal Q-Q Plot of ned2

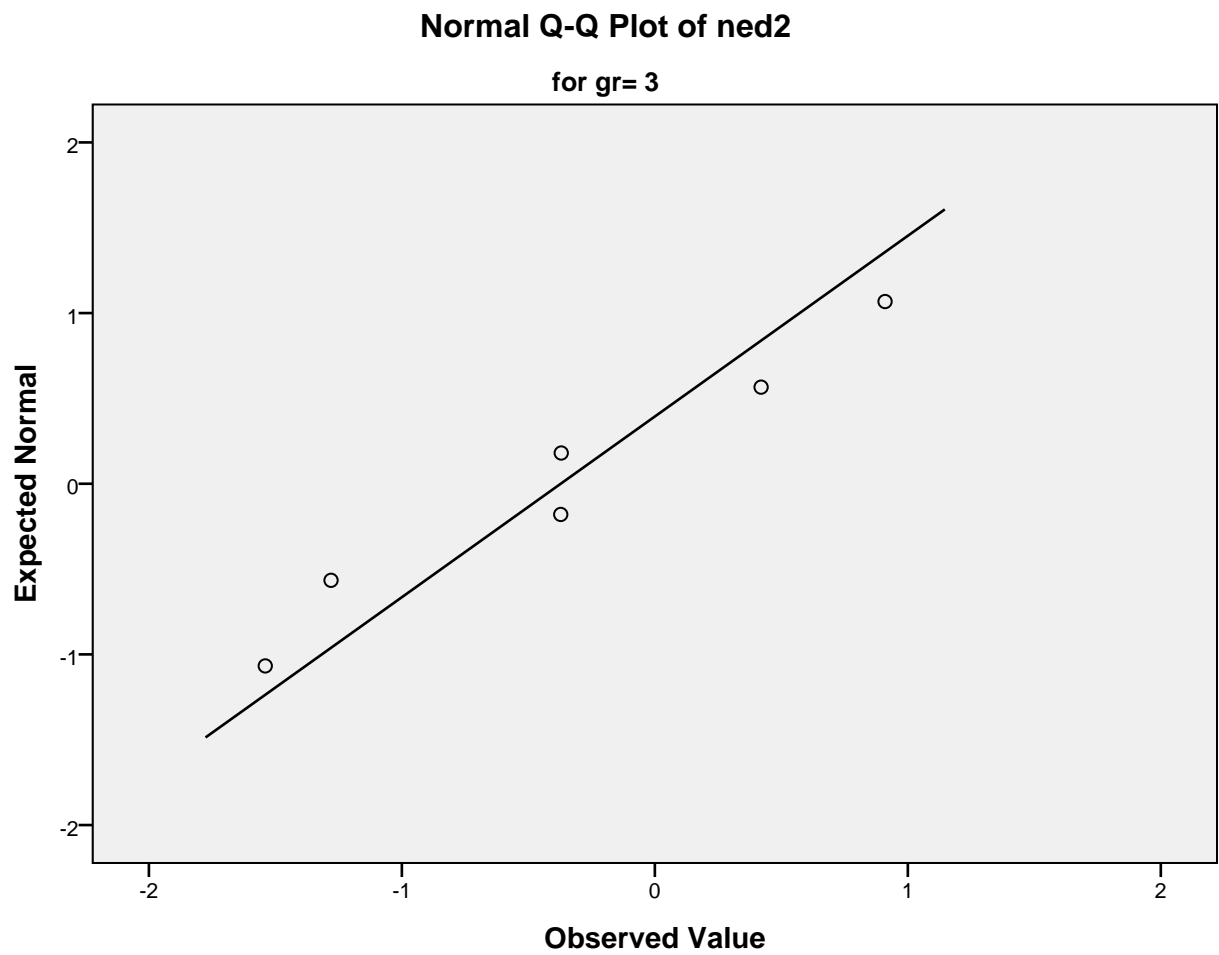
for gr= 1



Normal Q-Q Plot of ned2

for gr= 2

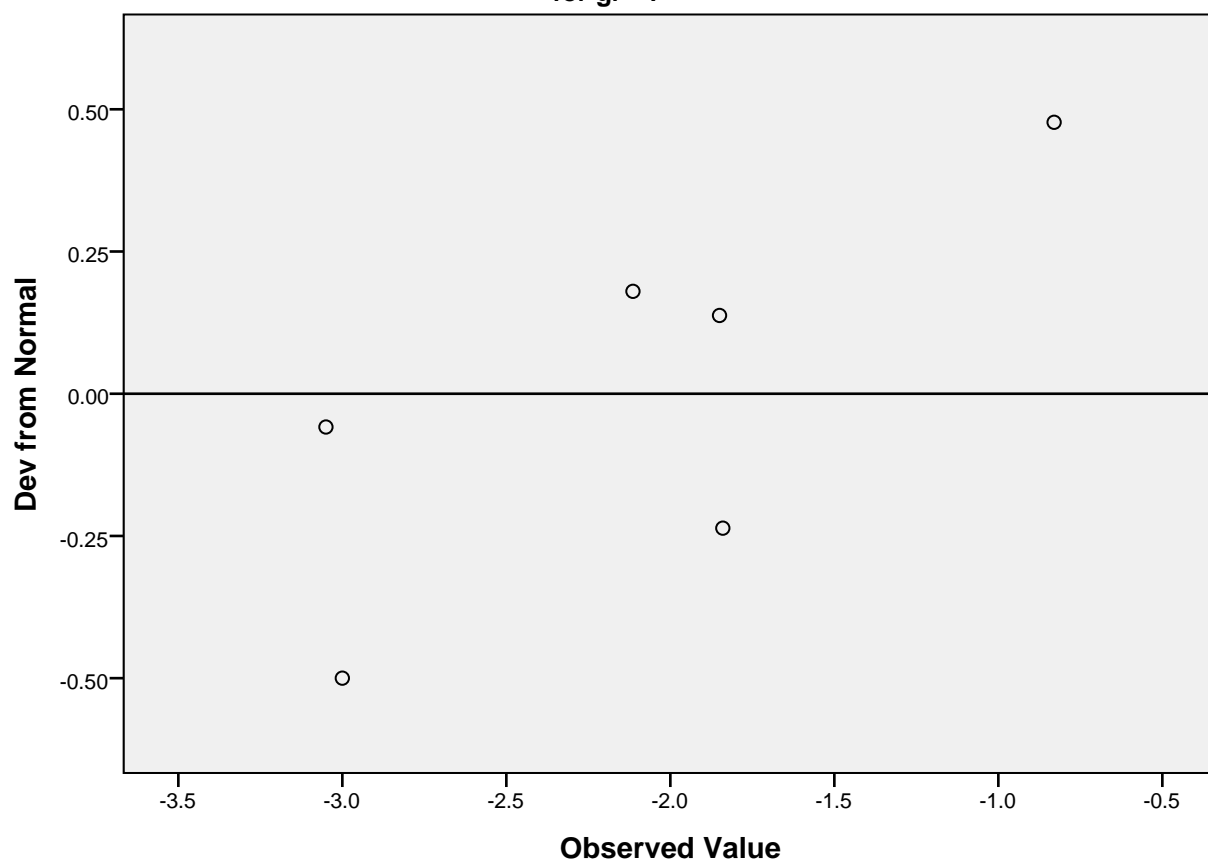


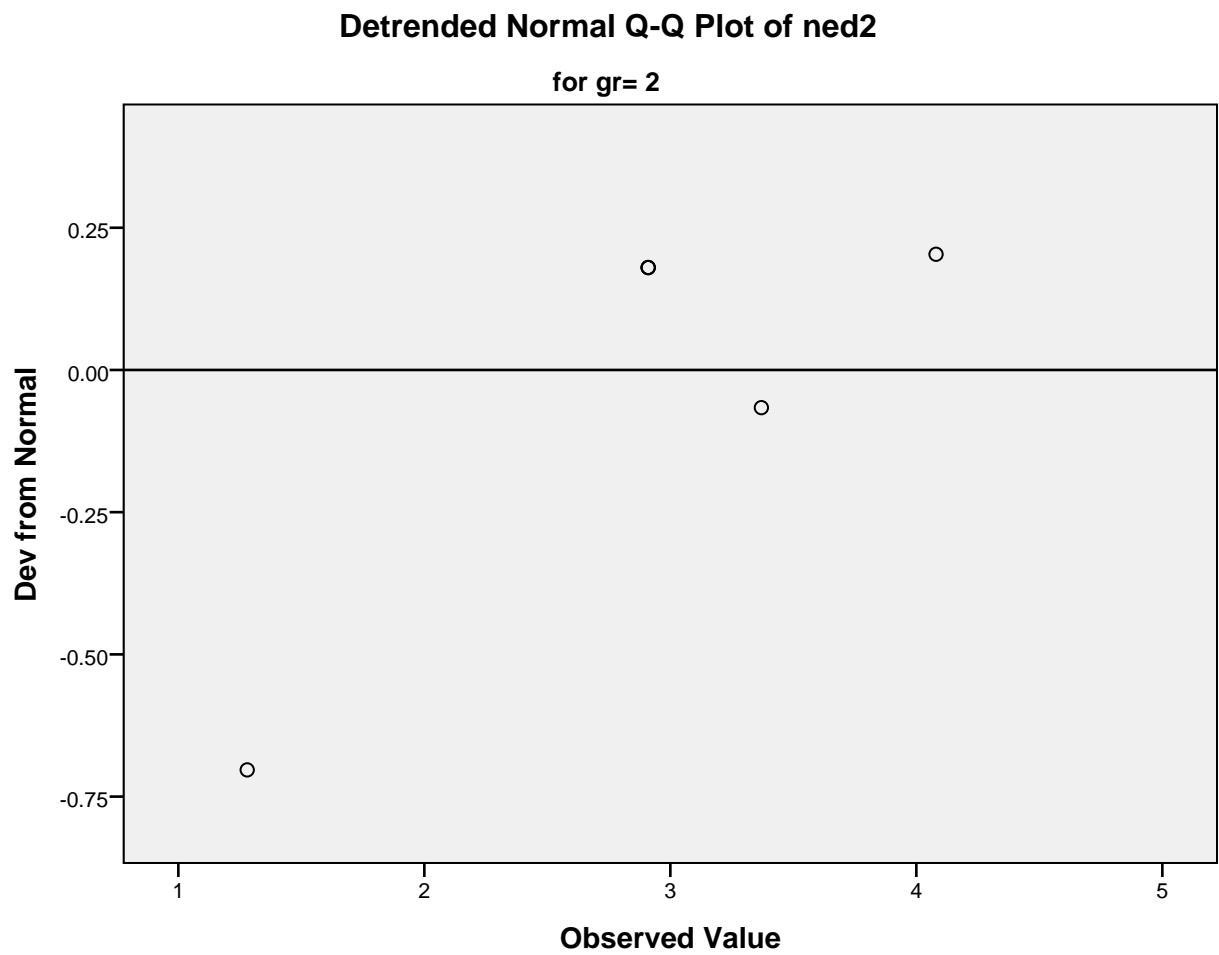


Detrended Normal Q-Q Plots

Detrended Normal Q-Q Plot of ned2

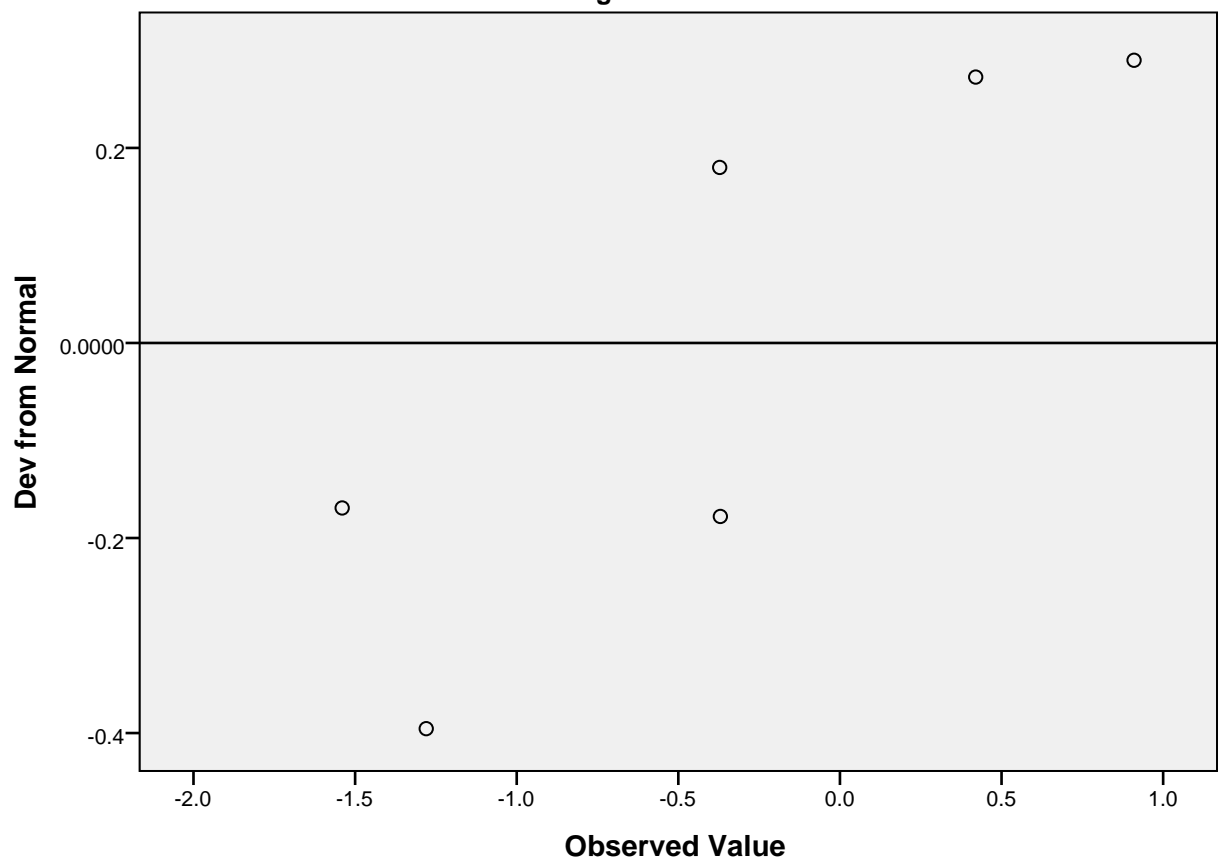
for gr= 1

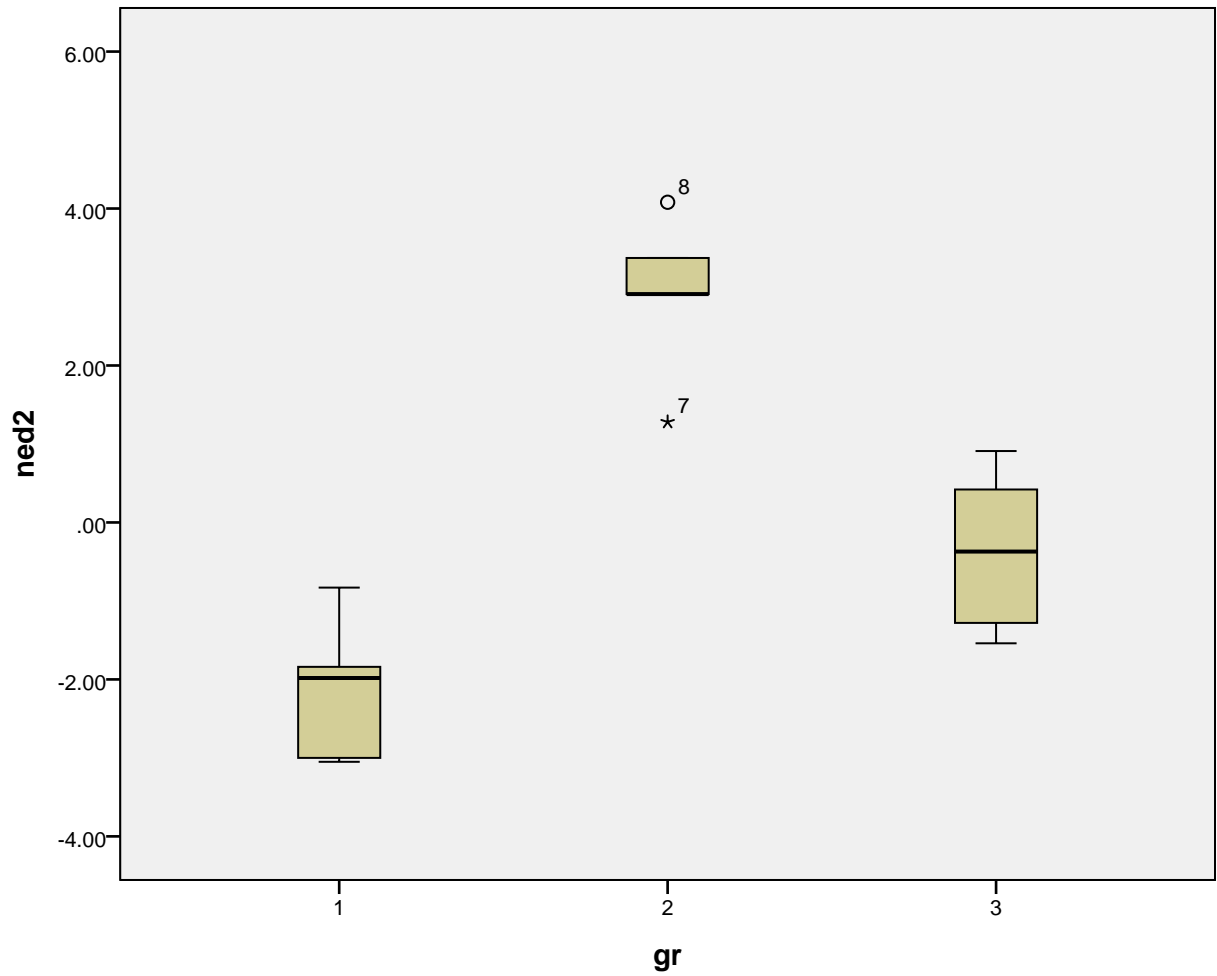




Detrended Normal Q-Q Plot of ned2

for gr= 3





ned4

Stem-and-Leaf Plots

ned4 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
1.00	Extremes	(= \leq -3.1)
1.00	-1 .	2
.00	-0 .	
4.00	-0 .	2234

Stem width: 1.00
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
1.00	1 .	7
3.00	2 .	244
2.00	2 .	79

Stem width: 1.00
Each leaf: 1 case(s)

ned4 Stem-and-Leaf Plot for
gr= 3

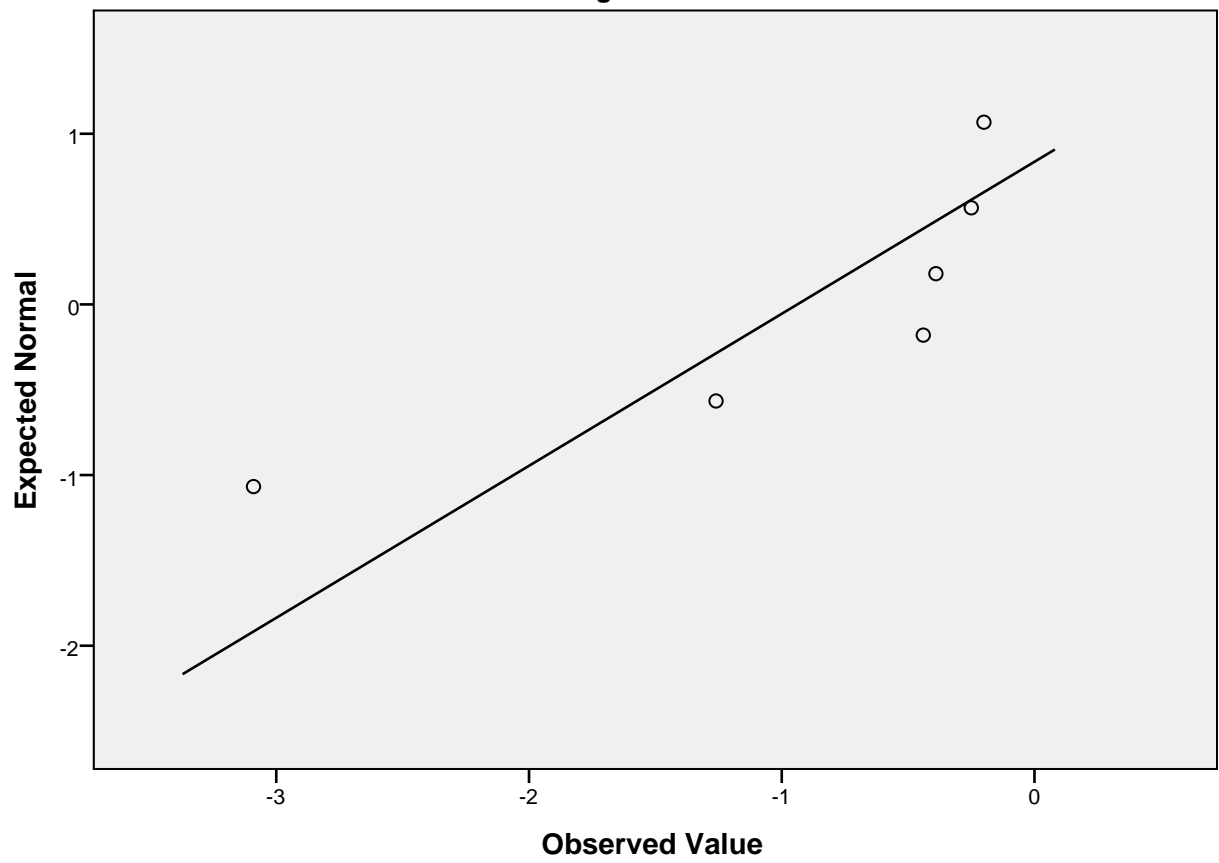
Frequency	Stem &	Leaf
1.00	-2 .	2
.00	-1 .	
3.00	-0 .	116
.00	0 .	
2.00	1 .	03

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

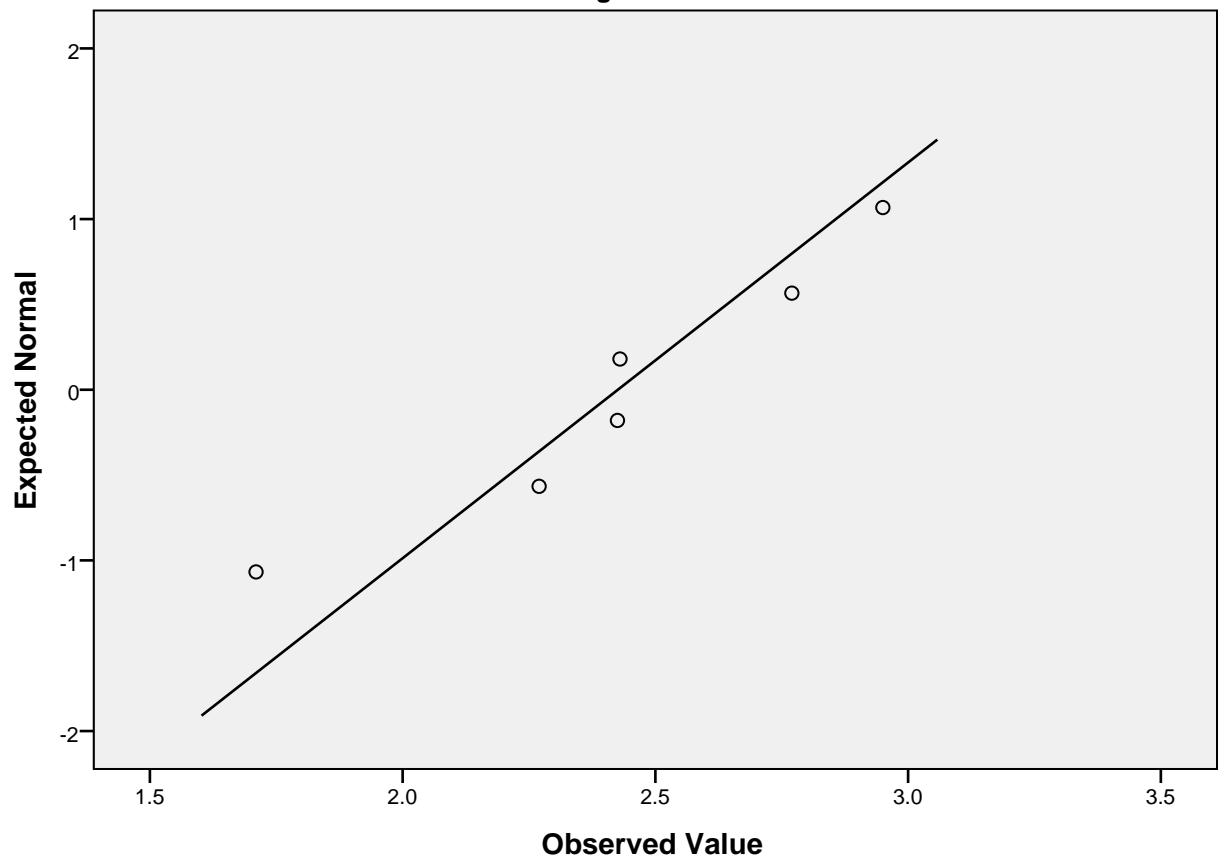
Normal Q-Q Plot of ned4

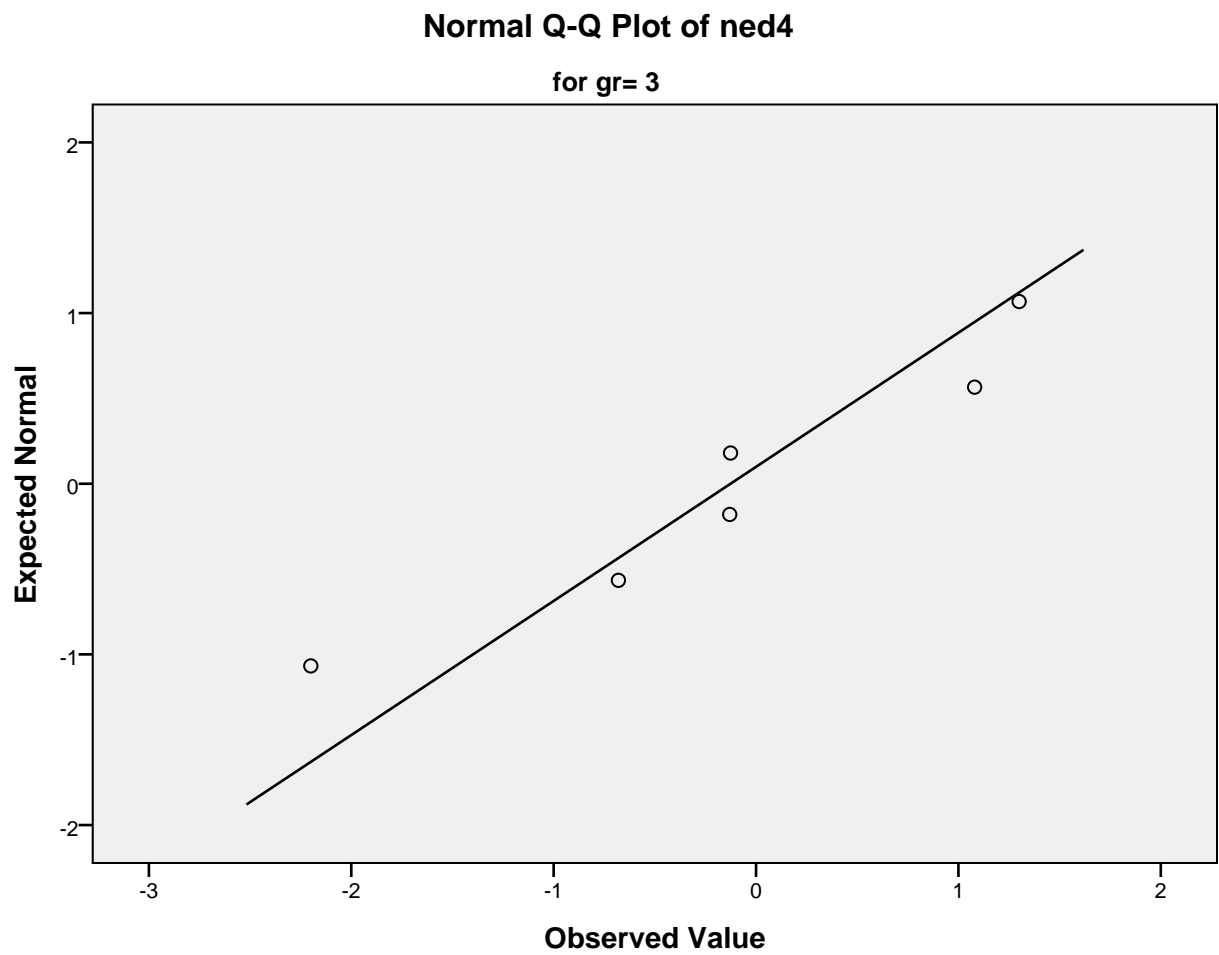
for gr= 1



Normal Q-Q Plot of ned4

for gr= 2

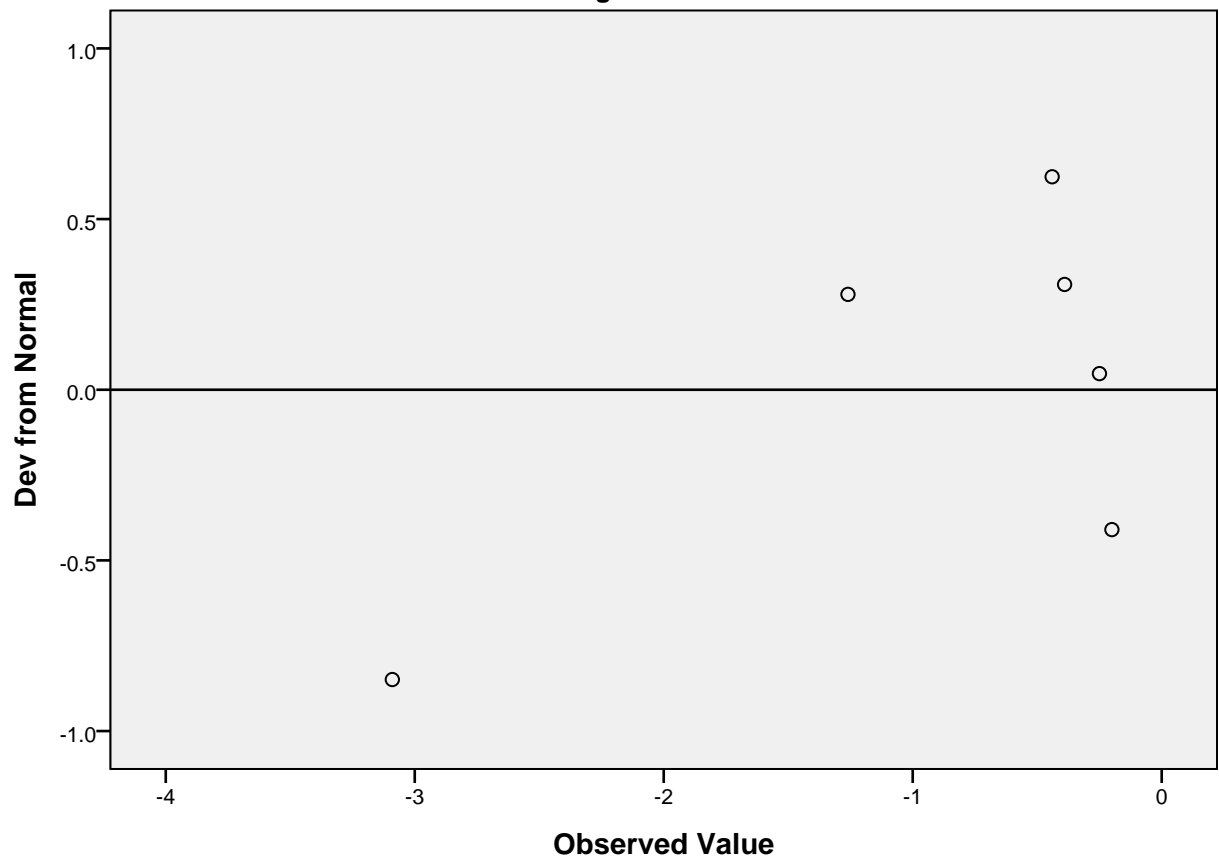




Detrended Normal Q-Q Plots

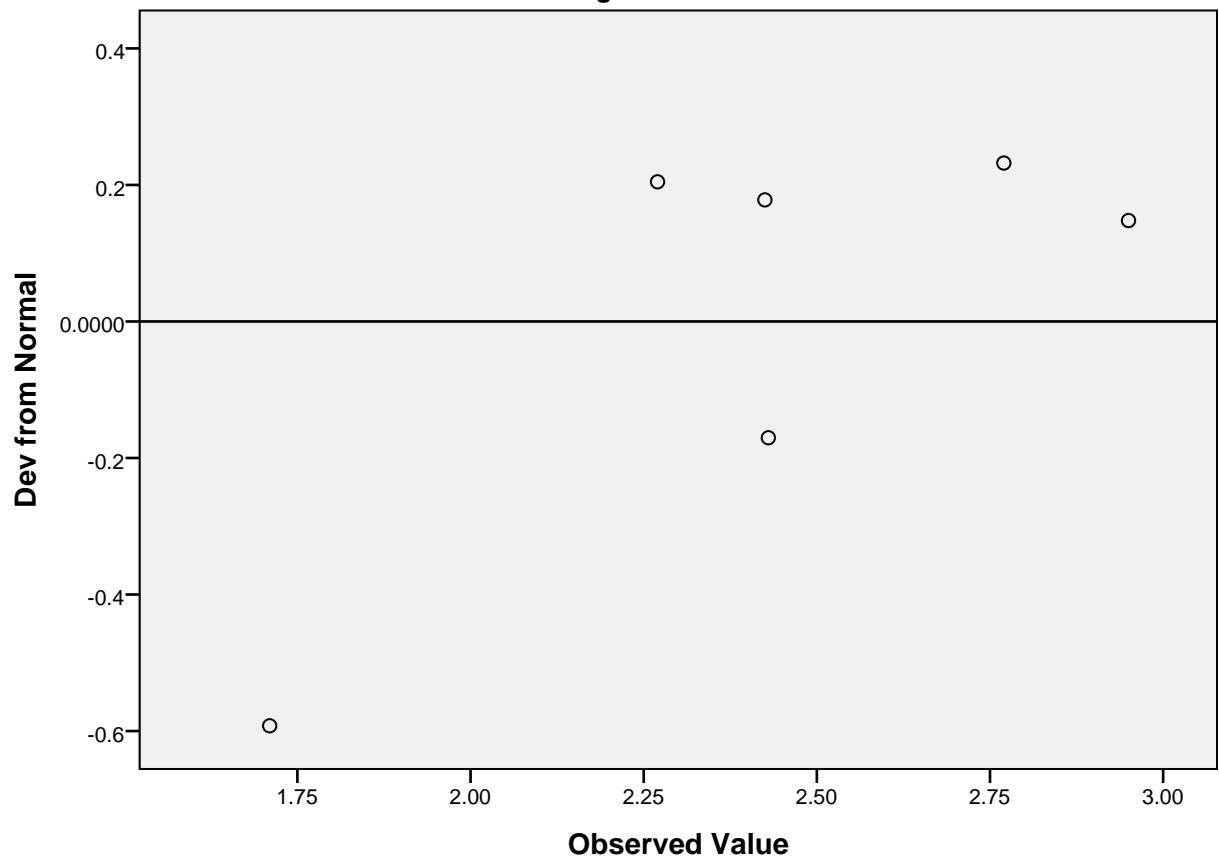
Detrended Normal Q-Q Plot of ned4

for gr= 1



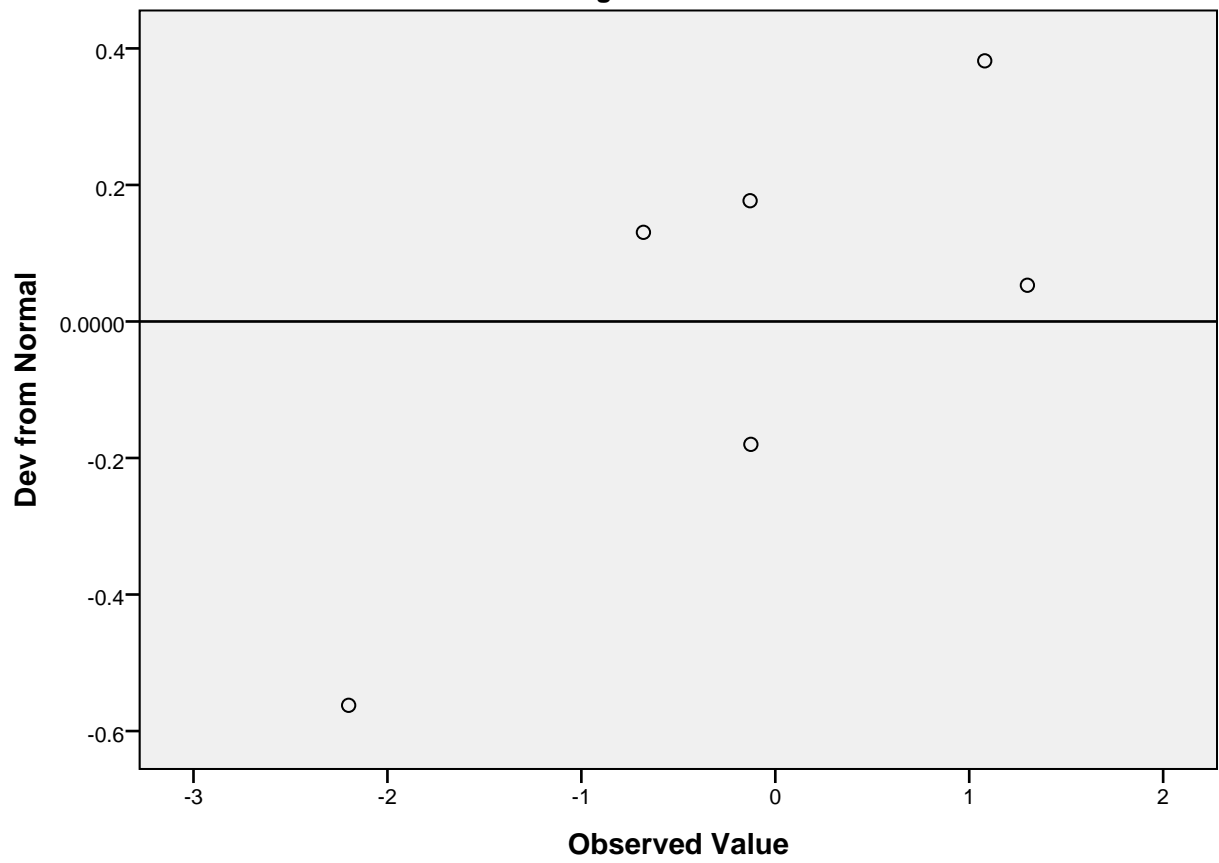
Detrended Normal Q-Q Plot of ned4

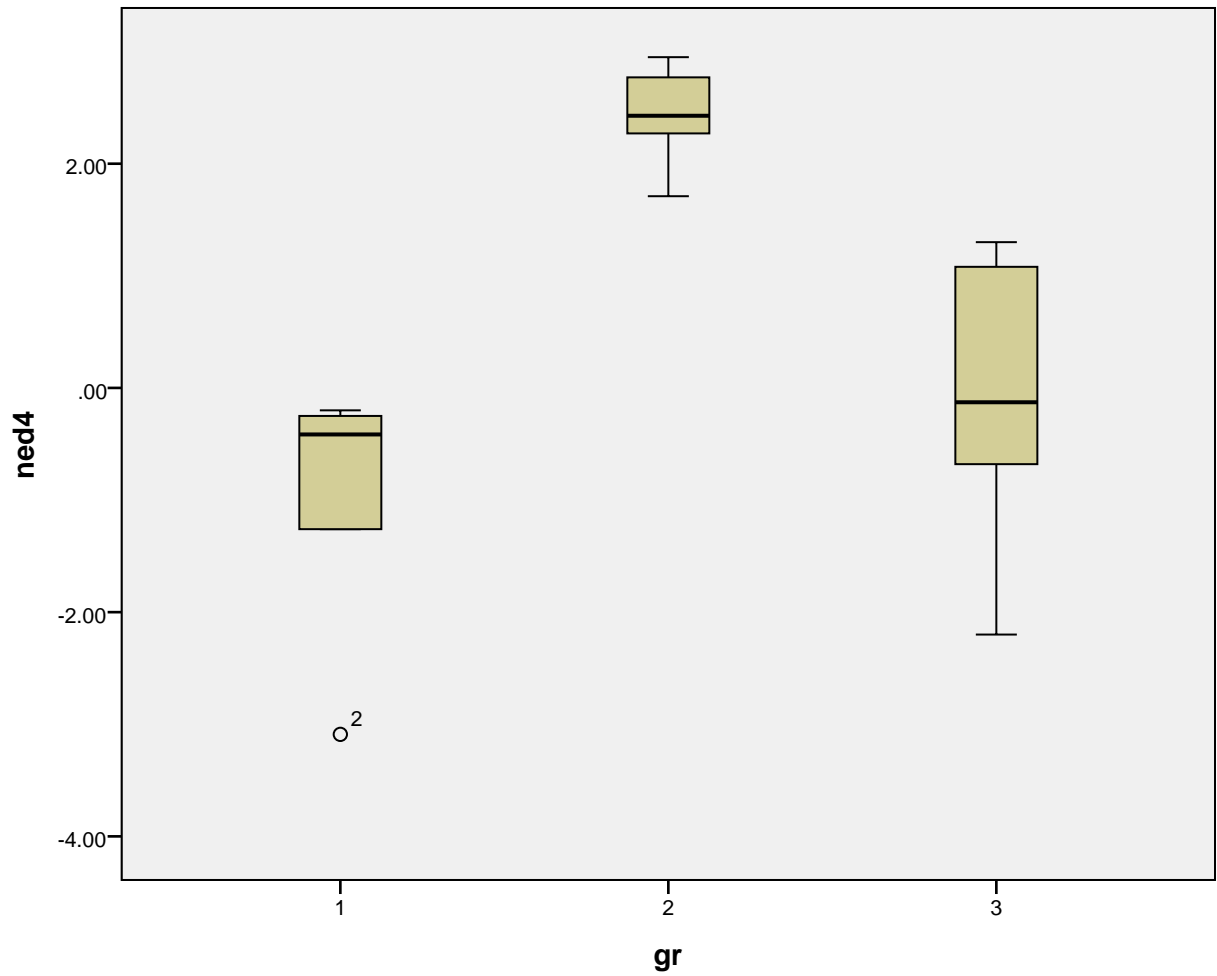
for gr= 2



Detrended Normal Q-Q Plot of ned4

for gr= 3





ned8

Stem-and-Leaf Plots

ned8 Stem-and-Leaf Plot for
gr= 1

Frequency	Stem &	Leaf
2.00	-0 .	33
2.00	0 .	23
2.00	0 .	67

Stem width: 1.00
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 2

Frequency	Stem &	Leaf
5.00	1 .	00224
1.00	1 .	5

Stem width: 1.00
Each leaf: 1 case(s)

ned8 Stem-and-Leaf Plot for
gr= 3

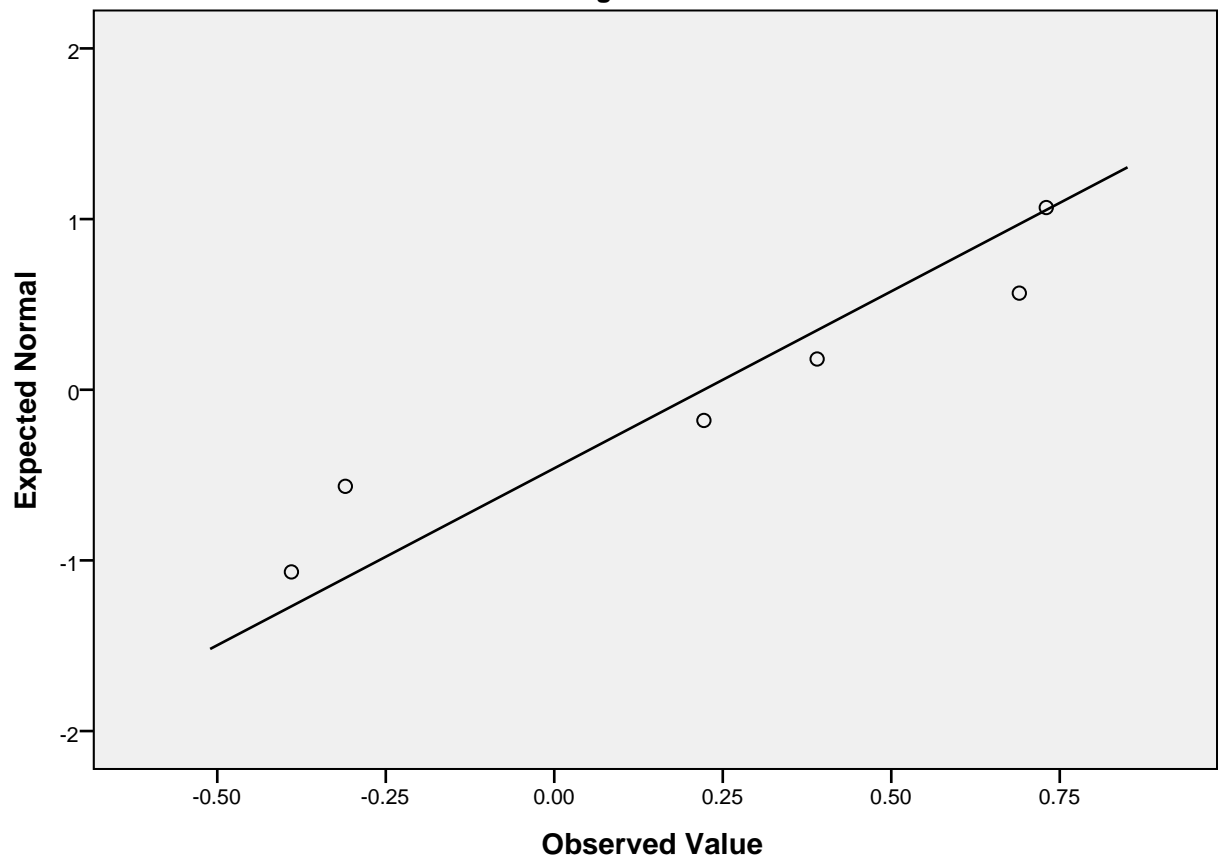
Frequency	Stem &	Leaf
1.00	-1 .	2
.00	-0 .	
3.00	0 .	377
1.00	1 .	8
1.00	2 .	0

Stem width: 1.00
Each leaf: 1 case(s)

Normal Q-Q Plots

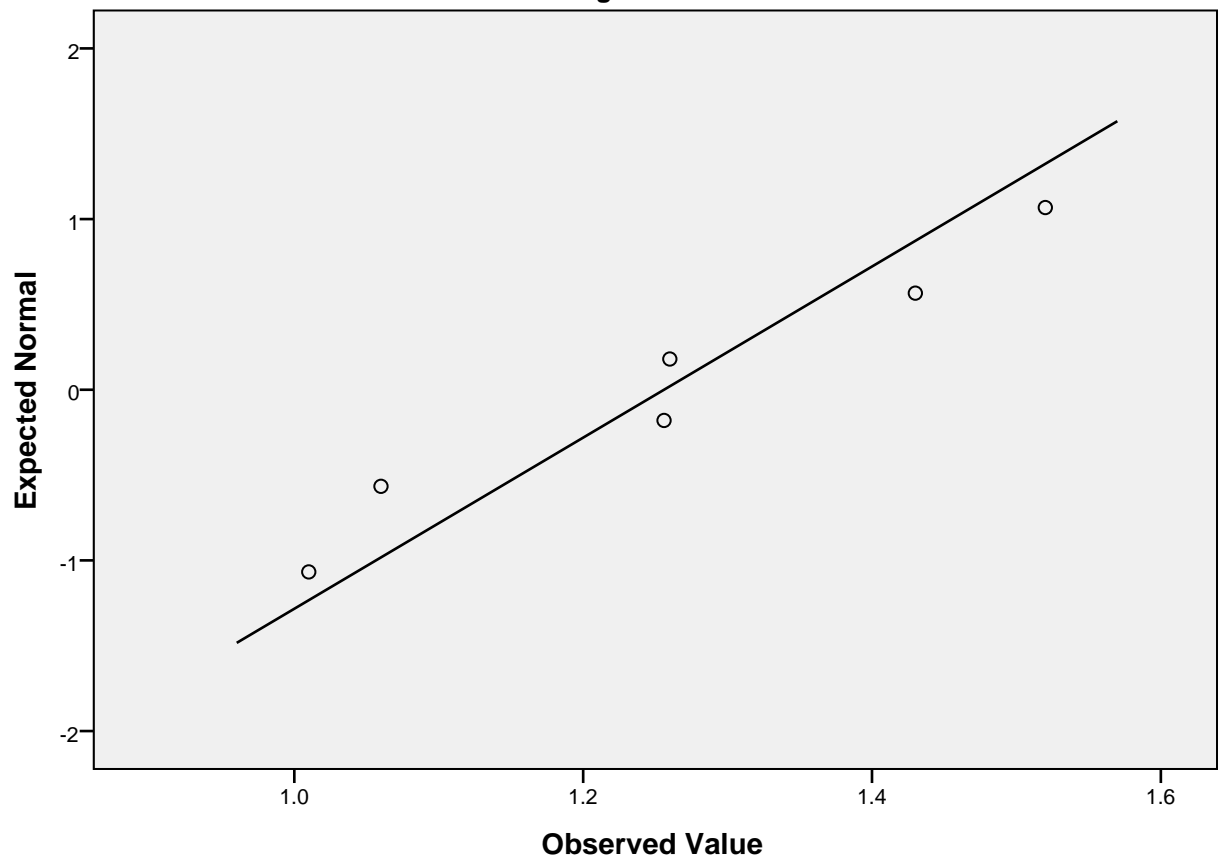
Normal Q-Q Plot of ned8

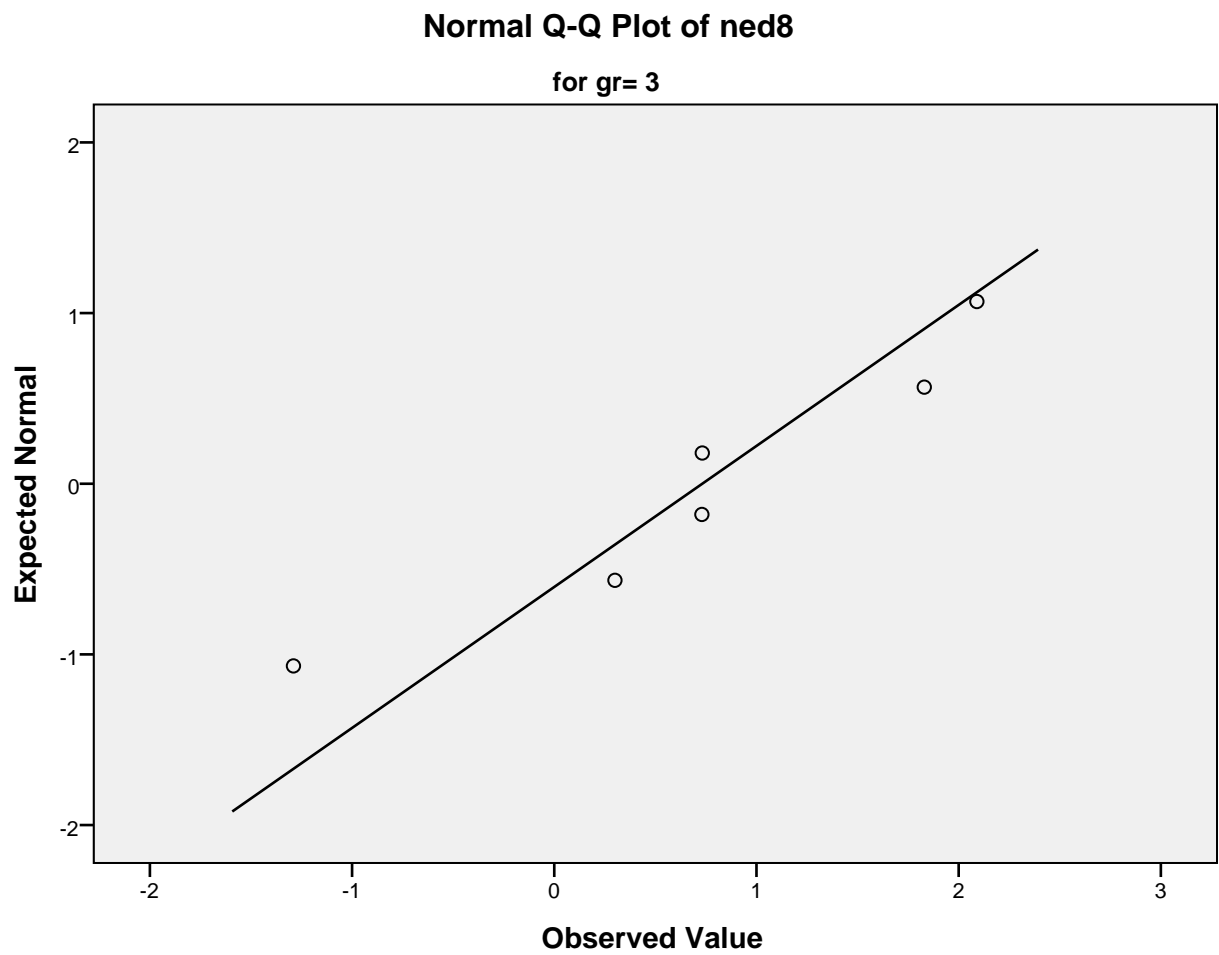
for gr= 1



Normal Q-Q Plot of ned8

for gr= 2

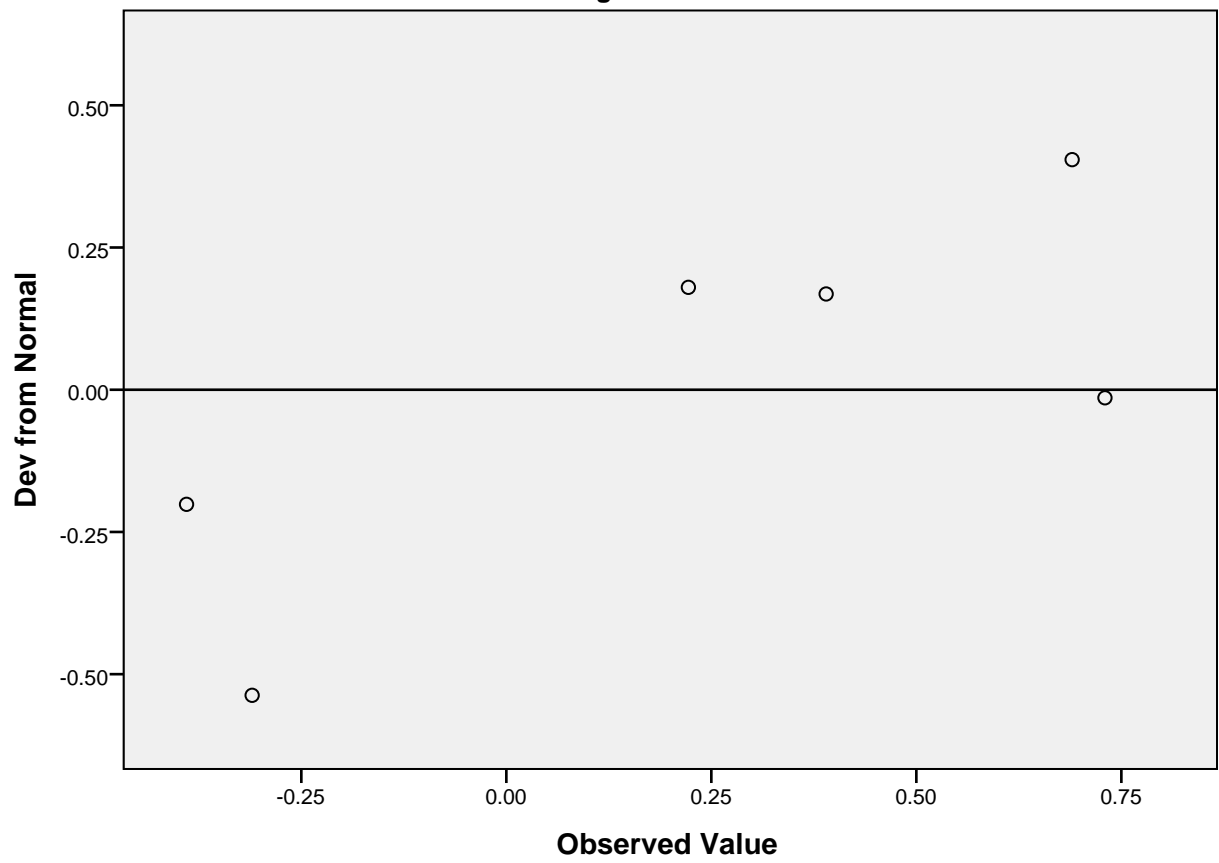




Detrended Normal Q-Q Plots

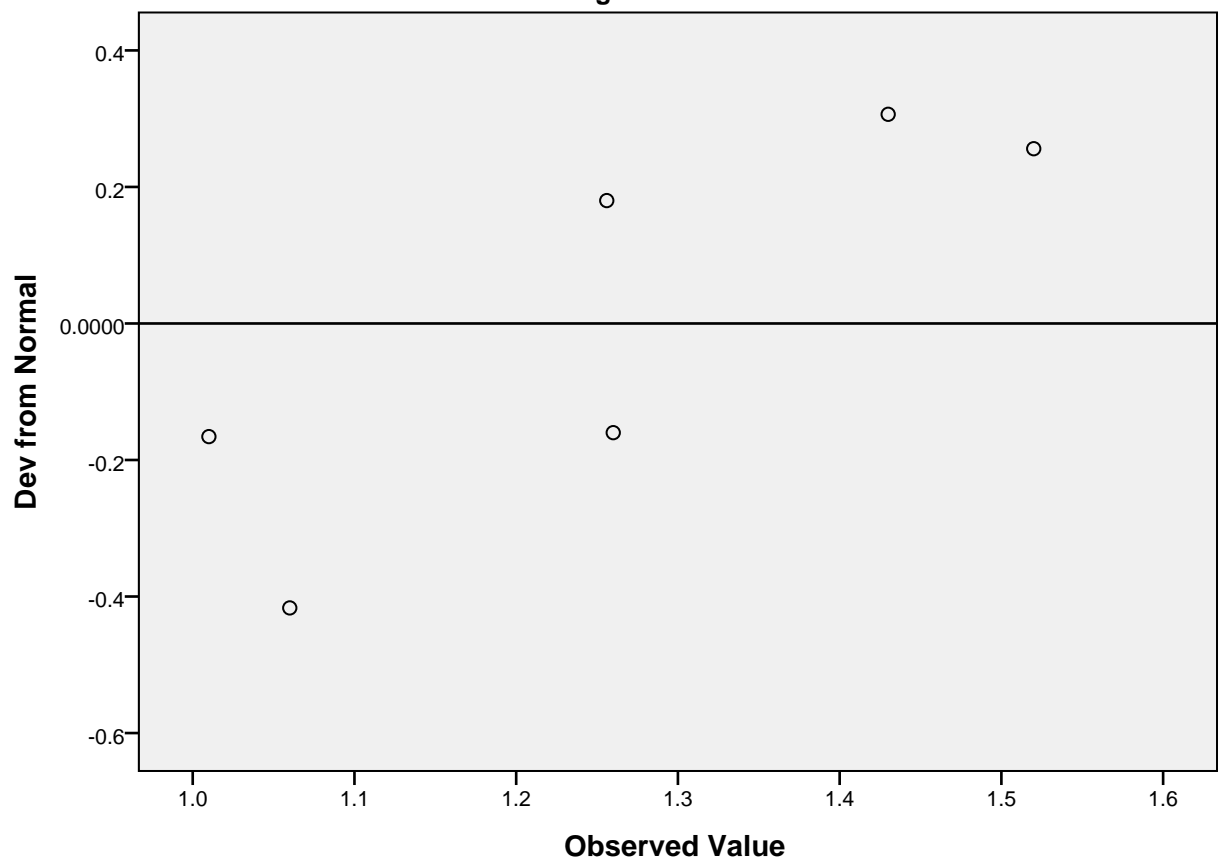
Detrended Normal Q-Q Plot of ned8

for gr= 1



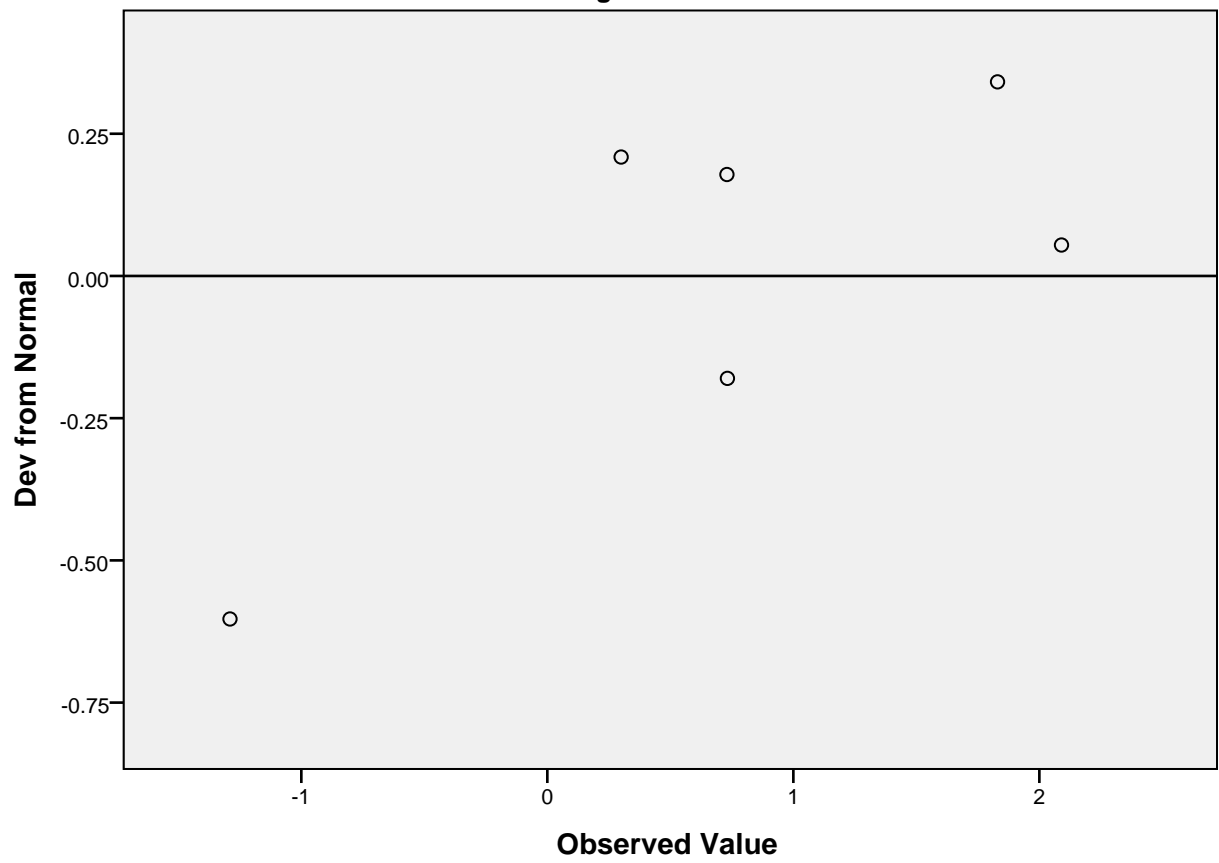
Detrended Normal Q-Q Plot of ned8

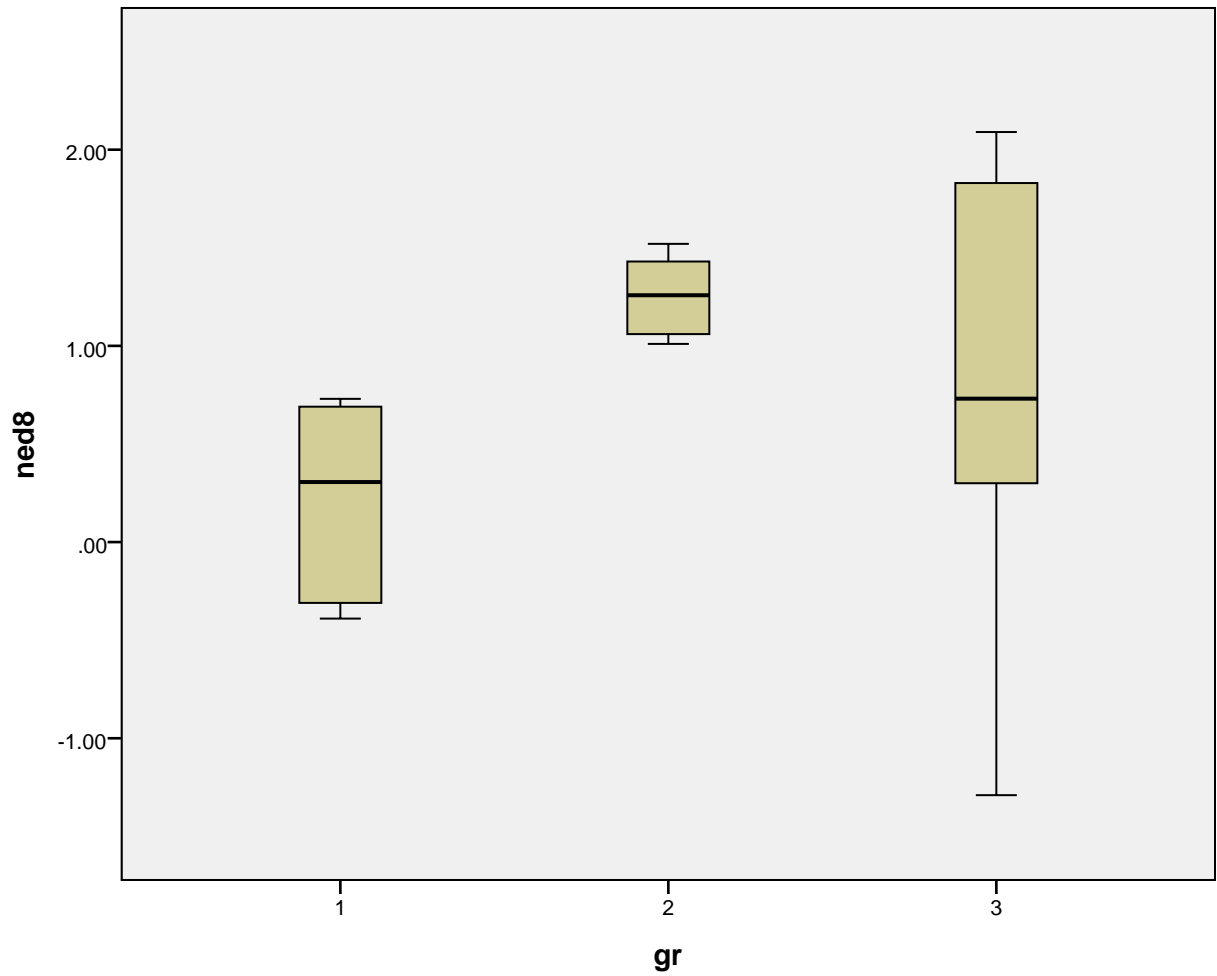
for gr= 2



Detrended Normal Q-Q Plot of ned8

for gr= 3





```
NPAR TESTS  
  /K-W=ned1 ned2 ned4 ned8 BY gr(1 3)  
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created	11-Apr-2016 23:07:19	
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /K-W=ned1 ned2 ned4 ned8 BY gr (1 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.002
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet2]

Kruskal-Wallis Test

Ranks

gr		N	Mean Rank
ned1	1	6	4.83
	2	6	15.50
	3	6	8.17
	Total	18	
ned2	1	6	3.83
	2	6	15.50
	3	6	9.17
	Total	18	
ned4	1	6	5.00
	2	6	15.50
	3	6	8.00
	Total	18	
ned8	1	6	5.08
	2	6	13.50
	3	6	9.92
	Total	18	

Test Statistics^{a,b}

	ned1	ned2	ned4	ned8
Chi-Square	12.564	14.422	12.316	7.519
df	2	2	2	2
Asymp. Sig.	.002	.001	.002	.023

a. Kruskal Wallis Test
b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 2)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		11-Apr-2016 23:07:55
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (1 2) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.003
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet2]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		
ned2	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		
ned4	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		
ned8	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	.000	.000	.000	.000
Wilcoxon W	21.000	21.000	21.000	21.000
Z	-2.887	-2.903	-2.882	-2.882
Asymp. Sig. (2-tailed)	.004	.004	.004	.004
Exact Sig. [2*(1-tailed Sig.)]	.002 ^a	.002 ^a	.002 ^a	.002 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

```
/M-W= ned1 ned2 ned4 ned8 BY gr(1 3)
/MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created	11-Apr-2016 23:08:20	
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax	NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (1 3) /MISSING ANALYSIS.	
Resources	Processor Time	00 00:00:00.016
	Elapsed Time	00 00:00:00.009
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet2]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	1	6	4.83	29.00
	3	6	8.17	49.00
	Total	12		
ned2	1	6	3.83	23.00
	3	6	9.17	55.00
	Total	12		
ned4	1	6	5.00	30.00
	3	6	8.00	48.00
	Total	12		
ned8	1	6	5.08	30.50
	3	6	7.92	47.50
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	8.000	2.000	9.000	9.500
Wilcoxon W	29.000	23.000	30.000	30.500
Z	-1.607	-2.562	-1.441	-1.363
Asymp. Sig. (2-tailed)	.108	.010	.150	.173
Exact Sig. [2*(1-tailed Sig.)]	.132 ^a	.009 ^a	.180 ^a	.180 ^a

a. Not corrected for ties.

b. Grouping Variable: gr

NPAR TESTS

/M-W= ned1 ned2 ned4 ned8 BY gr(2 3)

/MISSING ANALYSIS.

NPar Tests

Notes

Output Created		11-Apr-2016 23:08:37
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= ned1 ned2 ned4 ned8 BY gr (2 3) /MISSING ANALYSIS.
Resources	Processor Time	00 00:00:00.000
	Elapsed Time	00 00:00:00.008
	Number of Cases Allowed ^a	78643

a. Based on availability of workspace memory.

[DataSet2]

Mann-Whitney Test

Ranks

	gr	N	Mean Rank	Sum of Ranks
ned1	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned2	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned4	2	6	9.50	57.00
	3	6	3.50	21.00
	Total	12		
ned8	2	6	7.50	45.00
	3	6	5.50	33.00
	Total	12		

Test Statistics^b

	ned1	ned2	ned4	ned8
Mann-Whitney U	.000	.000	.000	12.000
Wilcoxon W	21.000	21.000	21.000	33.000
Z	-2.887	-2.903	-2.882	-.961
Asymp. Sig. (2-tailed)	.004	.004	.004	.337
Exact Sig. [2*(1-tailed Sig.)]	.002 ^a	.002 ^a	.002 ^a	.394 ^a

a. Not corrected for ties.

b. Grouping Variable: gr