

Host

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Anderson Darling Test

Anderson Darling Test
Import data

Normality context

Normality context
G3 descriptives

Explore

[AndersonDarlingData] D:\DATA ANALYSIS\B Normality and Assumption Tests\Anders on Darling Test\SPSS_Output\sav\Anderson-Darling-Test-data.sav

Case Processing Summary

	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
G3	649	100.0%	0	0.0%	649	100.0%

Descriptives

		Statistic	Std. Error	
G3	Mean	11.91	.127	
	95% Confidence Interval for Mean	Lower Bound	11.66	
		Upper Bound	12.16	
	5% Trimmed Mean	12.06		
	Median	12.00		
	Variance	10.437		
	Std. Deviation	3.231		
	Minimum	0		
	Maximum	19		
	Range	19		
	Interquartile Range	4		
	Skewness	-.913	.096	
	Kurtosis	2.712	.192	

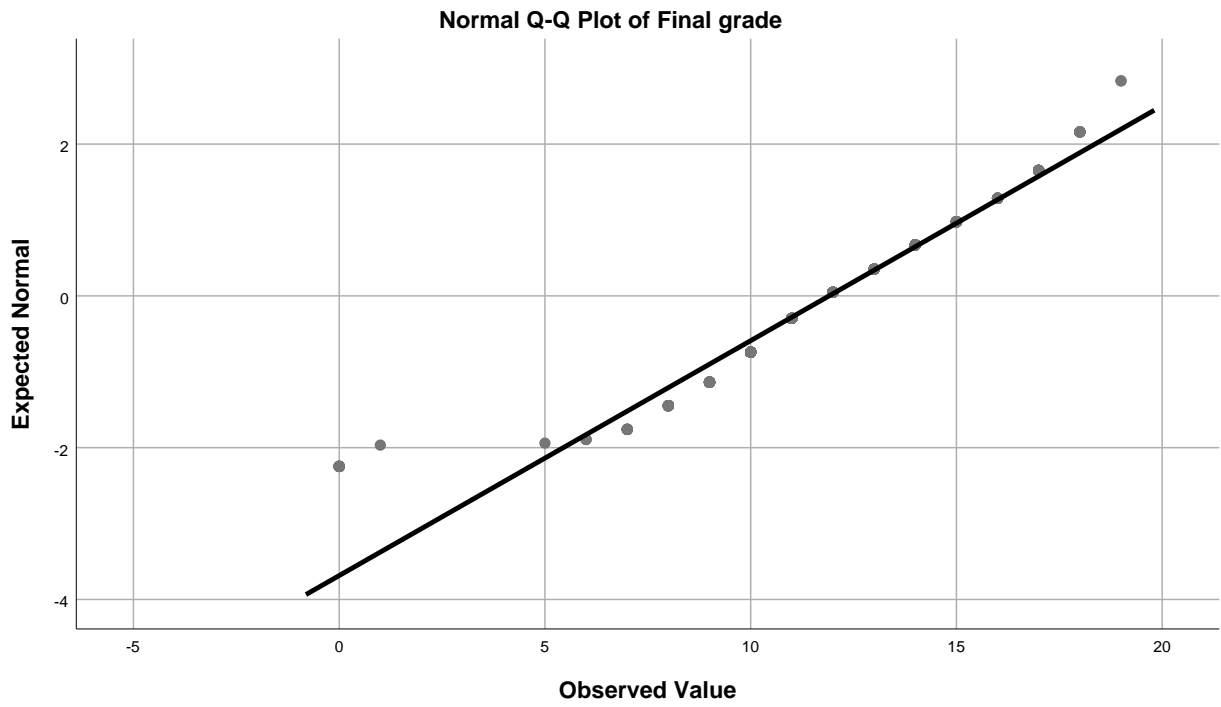
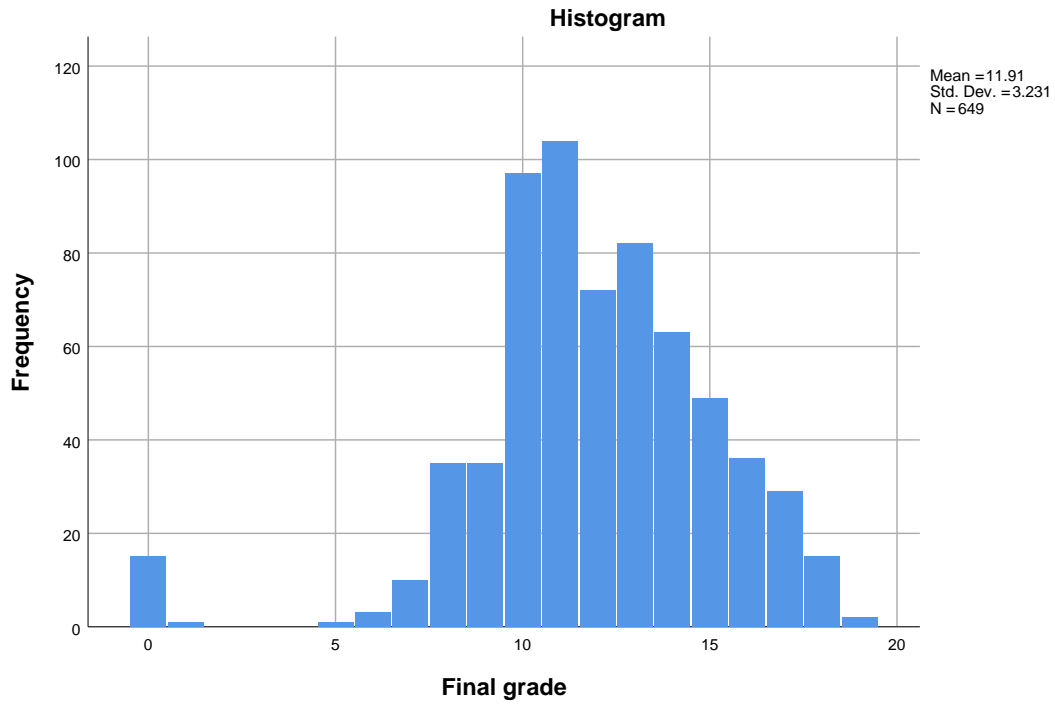
Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
G3	.124	649	.000	.926	649	.000

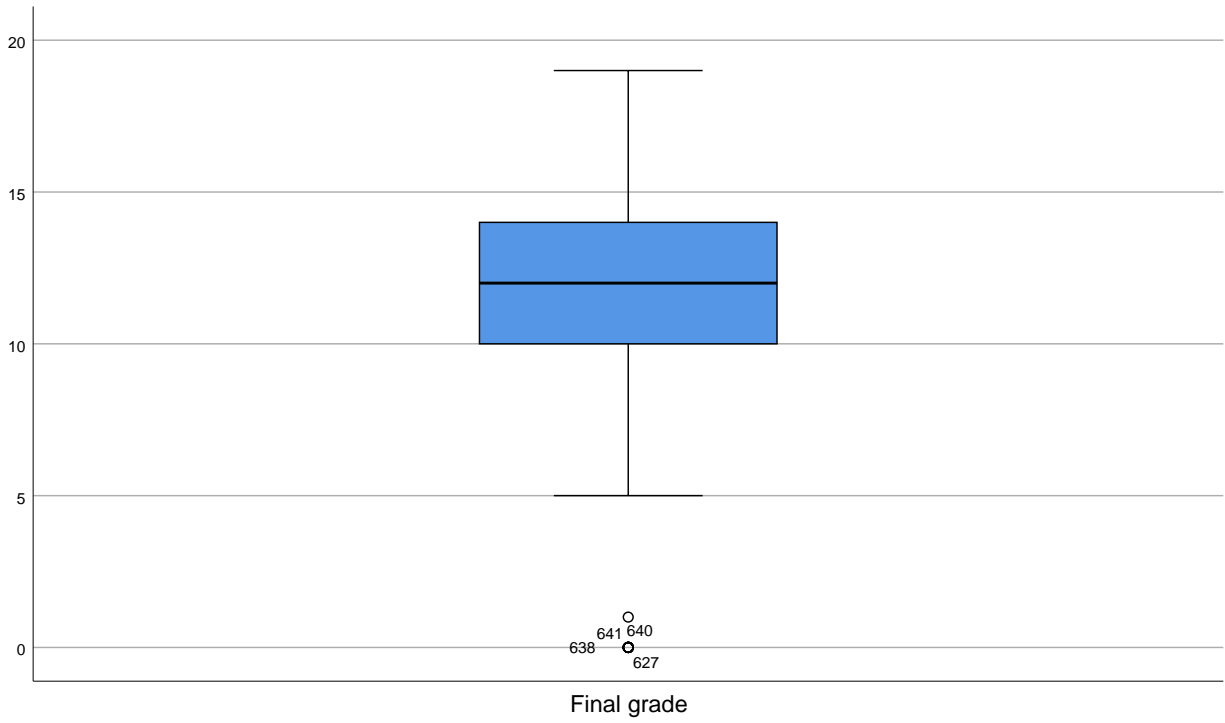
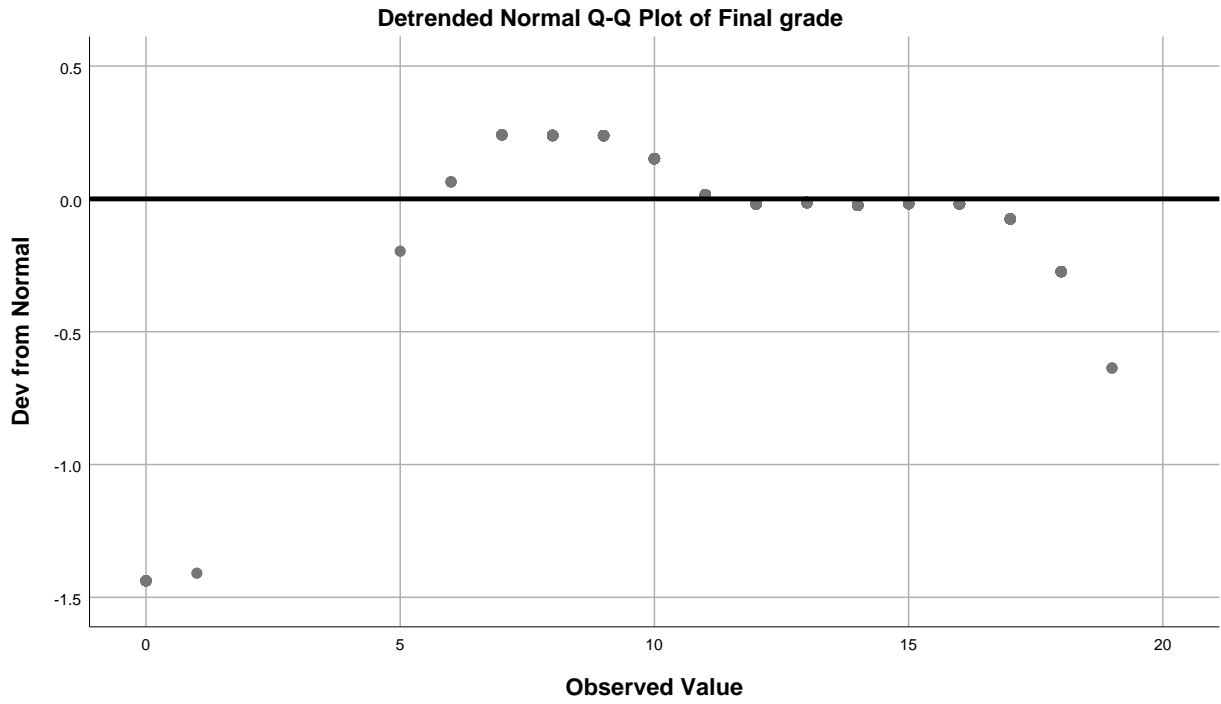
a. Lilliefors Significance Correction

Final grade

Normality context
G3 descriptives



Normality context
G3 descriptives



Prepare AD calculation

Prepare AD calculation
G3 normal CDF

File #2

KEY: 648

>Error # 5130

>File out of order. All the files in MATCH FILES must be in non-descending

>order on the BY variables. Use SORT CASES to sort the file.

>Execution of this command stops.

Any changes made to the working file since 19-JUN-2026 10:24:20 have been lost

.

The time now is 10:24:20.

>Error # 4285 in column 65. Text: ad_cdf_reverse

>Incorrect variable name: either the name is more than 64 characters, or it is

>not defined by a previous command.

>Execution of this command stops.

>Error # 10934 in column 20. Text: ad_term

>The AGGREGATE command specifies an unknown existing variable name.

>Execution of this command stops.

>Error # 10921 in column 27. Text:)

>The number of existing variables does not match the number of new variables i

n

>a new variable definition on the AGGREGATE command.

>Error # 10934 in column 16. Text: ad_term

>The AGGREGATE command specifies an unknown existing variable name.

>Error # 10921 in column 23. Text:)

>The number of existing variables does not match the number of new variables i

n

>a new variable definition on the AGGREGATE command.

>Error # 4285 in column 16. Text: ad_n_calc

>Incorrect variable name: either the name is more than 64 characters, or it is

>not defined by a previous command.

>Execution of this command stops.

Prepare AD calculation
G3 normal CDF

>Error # 4285 in column 20. Text: ad_A2
>Incorrect variable name: either the name is more than 64 characters, or it is
>not defined by a previous command.
>Execution of this command stops.

>Error # 4285 in column 8. Text: ad_A2_star
>Incorrect variable name: either the name is more than 64 characters, or it is
>not defined by a previous command.
>Execution of this command stops.

>Error # 4285 in column 49. Text: ad_A2_star
>Incorrect variable name: either the name is more than 64 characters, or it is
>not defined by a previous command.
>Execution of this command stops.

>Error # 4055. Command name: ELSE IF
>The ELSE IF command does not follow an unclosed DO IF command. Maybe the DO
>IF command was not recognized because of an error. Use the level-of-control
>shown to the left of the SPSS Statistics commands to determine the range of
>LOOPS and DO IFs.
>Execution of this command stops.

>Error # 4285 in column 48. Text: ad_A2_star
>Incorrect variable name: either the name is more than 64 characters, or it is
>not defined by a previous command.
>Execution of this command stops.

>Error # 4055. Command name: ELSE IF
>The ELSE IF command does not follow an unclosed DO IF command. Maybe the DO
>IF command was not recognized because of an error. Use the level-of-control
>shown to the left of the SPSS Statistics commands to determine the range of
>LOOPS and DO IFs.
>Execution of this command stops.

>Error # 4285 in column 42. Text: ad_A2_star
>Incorrect variable name: either the name is more than 64 characters, or it is
>not defined by a previous command.
>Execution of this command stops.

Prepare AD calculation
G3 normal CDF

>Error # 4068. Command name: ELSE
>The ELSE command does not follow an unclosed DO IF command. Maybe the DO IF
>command was not recognized because of an error. Use the level-of-control
>shown to the left of the SPSS Statistics commands to determine the range of
>LOOPS and DO IFs.
>Execution of this command stops.

>Error # 4285 in column 43. Text: ad_A2_star
>Incorrect variable name: either the name is more than 64 characters, or it is
>not defined by a previous command.
>Execution of this command stops.

>Error # 4070. Command name: END IF
>The command does not follow an unclosed DO IF command. Maybe the DO IF
>command was not recognized because of an error. Use the level-of-control
>shown to the left of the SPSS Statistics commands to determine the range of
>LOOPS and DO IFs.
>Execution of this command stops.

>Error # 4285 in column 5. Text: ad_p_value
>Incorrect variable name: either the name is more than 64 characters, or it is
>not defined by a previous command.
>Execution of this command stops.

>Error # 4285 in column 5. Text: ad_p_value
>Incorrect variable name: either the name is more than 64 characters, or it is
>not defined by a previous command.
>Execution of this command stops.

>Error # 4285 in column 23. Text: ad_p_value
>Incorrect variable name: either the name is more than 64 characters, or it is
>not defined by a previous command.
>Execution of this command stops.

>Warning # 4461 in column 3. Text: ad_A2
>An unknown variable name was specified on the VAR LABELS command. The name
>and the label will be ignored.

>Warning # 4461 in column 3. Text: ad_A2_star

Prepare AD calculation
G3 normal CDF

>An unknown variable name was specified on the VAR LABELS command. The name
>and the label will be ignored.

>Warning # 4461 in column 3. Text: ad_p_value

>An unknown variable name was specified on the VAR LABELS command. The name
>and the label will be ignored.

>Warning # 4461 in column 3. Text: ad_reject_05

>An unknown variable name was specified on the VAR LABELS command. The name
>and the label will be ignored.

>Warning # 4474. Command name: VALUE LABELS

>The (ADD) VALUE LABELS command specifies an unknown variable name. The name
>will be ignored.

>The error is associated with 'ad_reject_05'

>Error # 4820 in column 9. Text: ad_A2

>A variable named on the FORMATS, PRINT FORMATS, or WRITE FORMATS command has
>not yet been defined.

>Execution of this command stops.

Anderson Darling result

Anderson Darling result
G3 normality

List

>Error # 701 in column 16. Text: ad_n_calc
>An undefined variable name, or a scratch or system variable was specified in
a
>variable list which accepts only standard variables. Check spelling and
>verify the existence of this variable.
>Execution of this command stops.

>Error # 13003 in column 26. Text: ad_A2
>An unrecognized subcommand has been encountered. Valid subcommands are:
>VARIABLES, CASES, and FORMAT.

AD calculation detail

AD calculation detail
Tail terms

List

>Error # 701 in column 49. Text: ad_cdf_reverse
>An undefined variable name, or a scratch or system variable was specified in
a
>variable list which accepts only standard variables. Check spelling and
>verify the existence of this variable.
>Execution of this command stops.

>Error # 13003 in column 64. Text: ad_term
>An unrecognized subcommand has been encountered. Valid subcommands are:
>VARIABLES, CASES, and FORMAT.

Group normality context

Group normality context
G3 by sex

Explore

[AndersonDarlingData] D:\DATA ANALYSIS\B Normality and Assumption Tests\Anders on Darling Test\SPSS_Output\sav\Anderson-Darling-Test-data.sav

Sex group

Case Processing Summary

	sex	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
G3	F	383	100.0%	0	0.0%	383	100.0%
	M	266	100.0%	0	0.0%	266	100.0%

Descriptives

sex			Statistic	Std. Error	
G3	F	Mean	12.25	.160	
		95% Confidence Interval for Mean	Lower Bound	11.94	
			Upper Bound	12.57	
		5% Trimmed Mean	12.37		
		Median	12.00		
		Variance	9.760		
		Std. Deviation	3.124		
		Minimum	0		
		Maximum	19		
		Range	19		
		Interquartile Range	4		
		Skewness	-.857	.125	
		Kurtosis	2.683	.249	
		M		Mean	11.41
95% Confidence Interval for Mean	Lower Bound			11.01	
	Upper Bound			11.81	
5% Trimmed Mean	11.60				
Median	11.00				
Variance	11.027				
Std. Deviation	3.321				

Group normality context
G3 by sex

Descriptives

sex		Statistic	Std. Error
	Minimum	0	
	Maximum	19	
	Range	19	
	Interquartile Range	3	
	Skewness	-.980	.149
	Kurtosis	2.803	.298

Tests of Normality

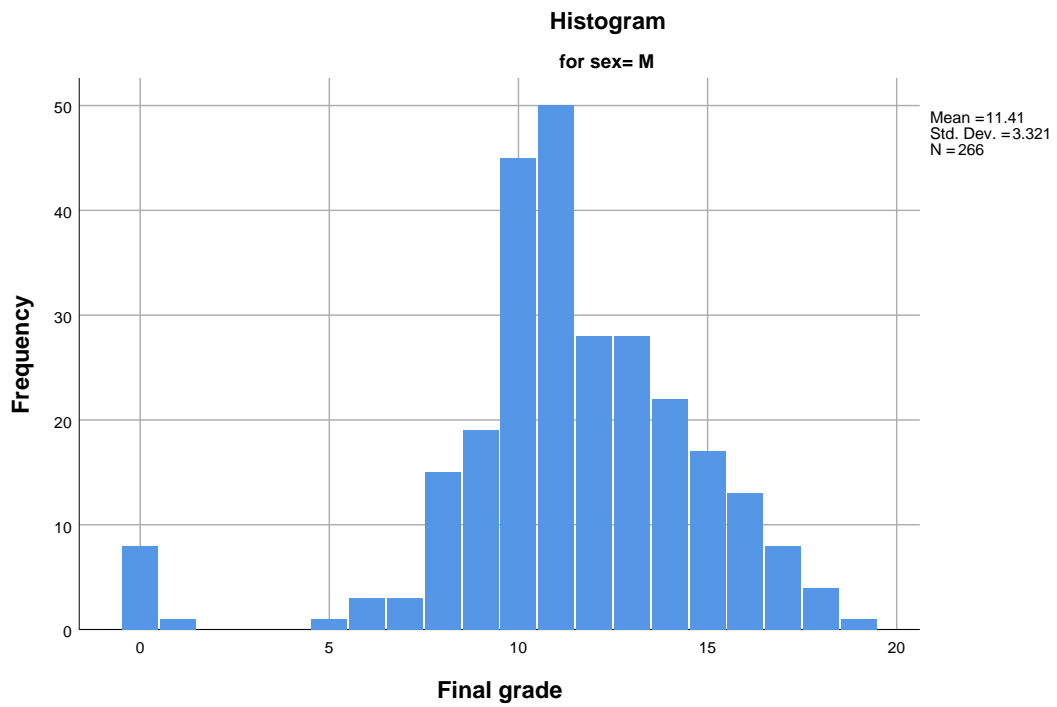
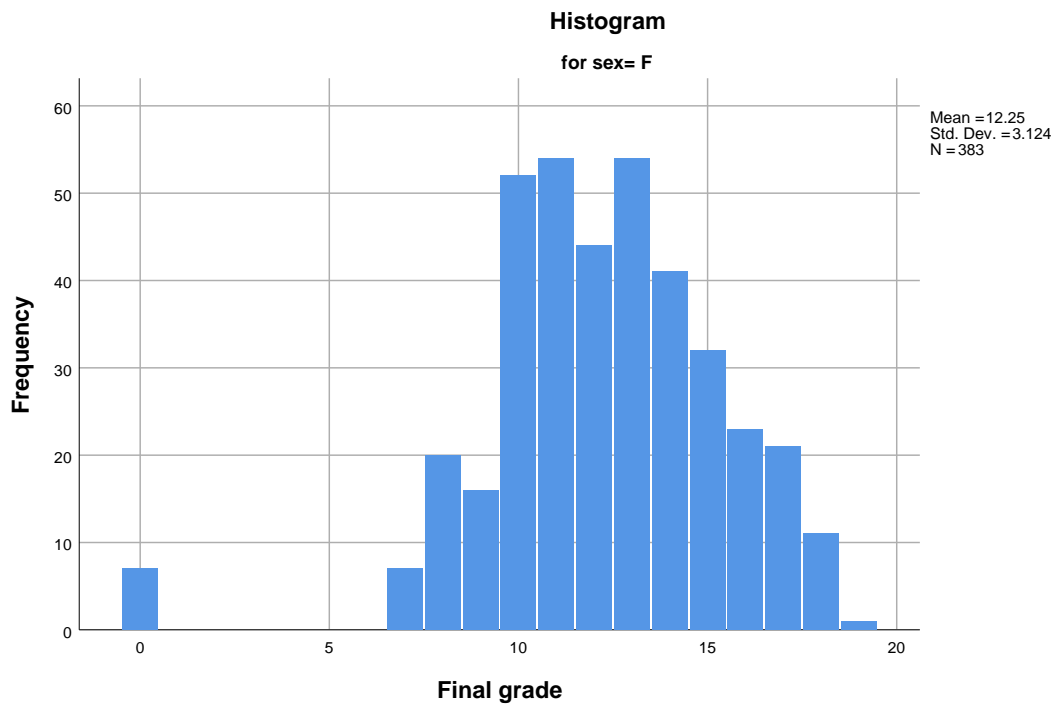
	sex	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
G3	F	.105	383	.000	.934	383	.000
	M	.148	266	.000	.913	266	.000

a. Lilliefors Significance Correction

Final grade

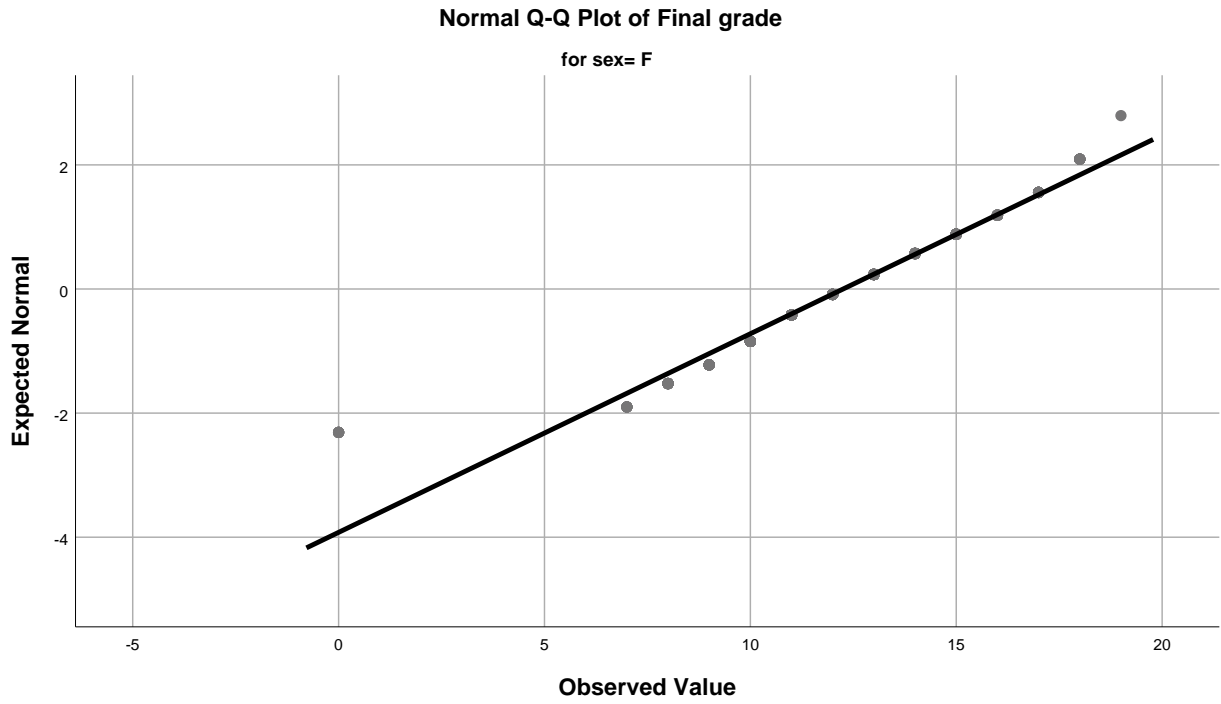
Histograms

Group normality context
G3 by sex

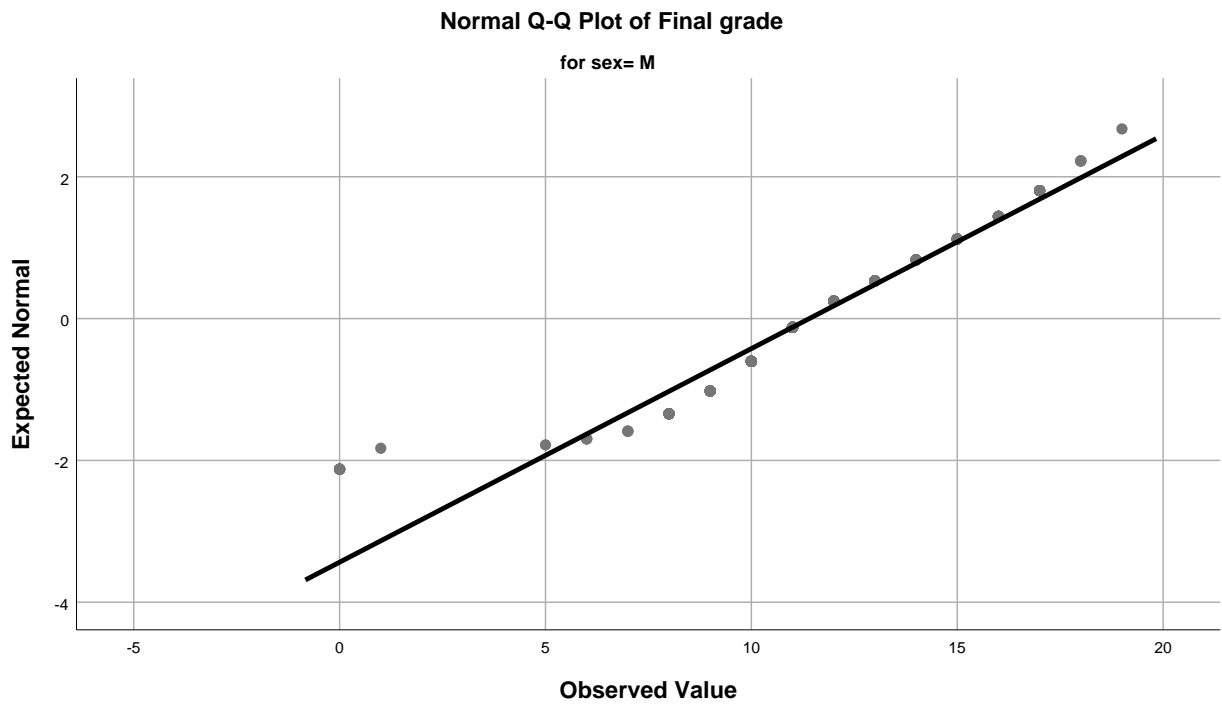


Group normality context
G3 by sex

Normal Q-Q Plots



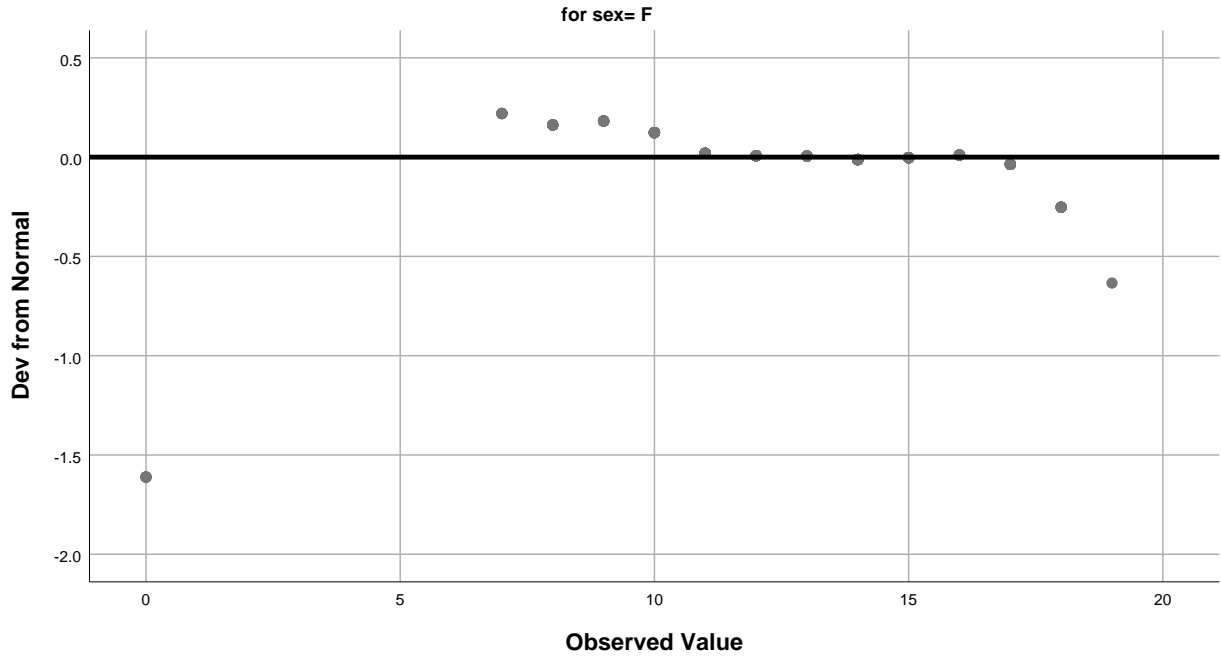
Group normality context
G3 by sex



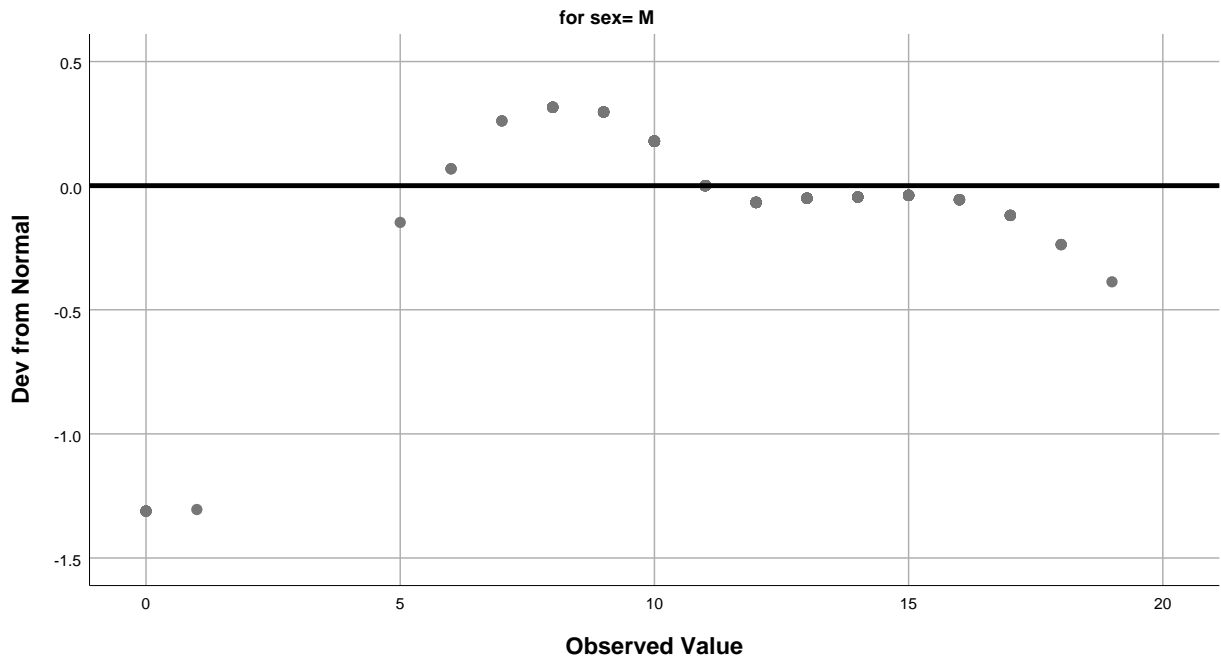
Detrended Normal Q-Q Plots

Group normality context
G3 by sex

Detrended Normal Q-Q Plot of Final grade



Detrended Normal Q-Q Plot of Final grade



Group normality context
G3 by sex

