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Cramer von Mises Test

Cramer von Mises Test
Import data

Normality context

Normality context
G3 plots

Explore

[CramerVonMisesData] D:\DATA ANALYSIS\B Normality and Assumption Tests\Cramer von Mises Test\SPSS_Output\sav\Cramer-von-Mises-Test-data.sav

Case Processing Summary

	Valid		Cases 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

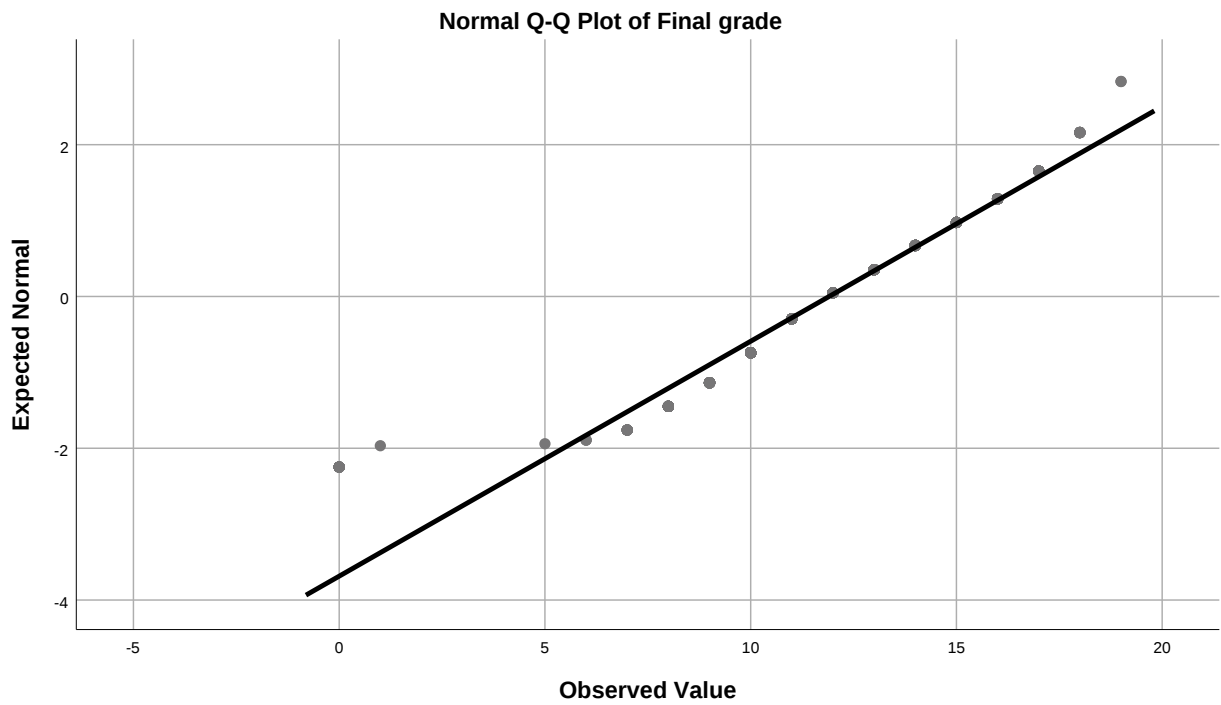
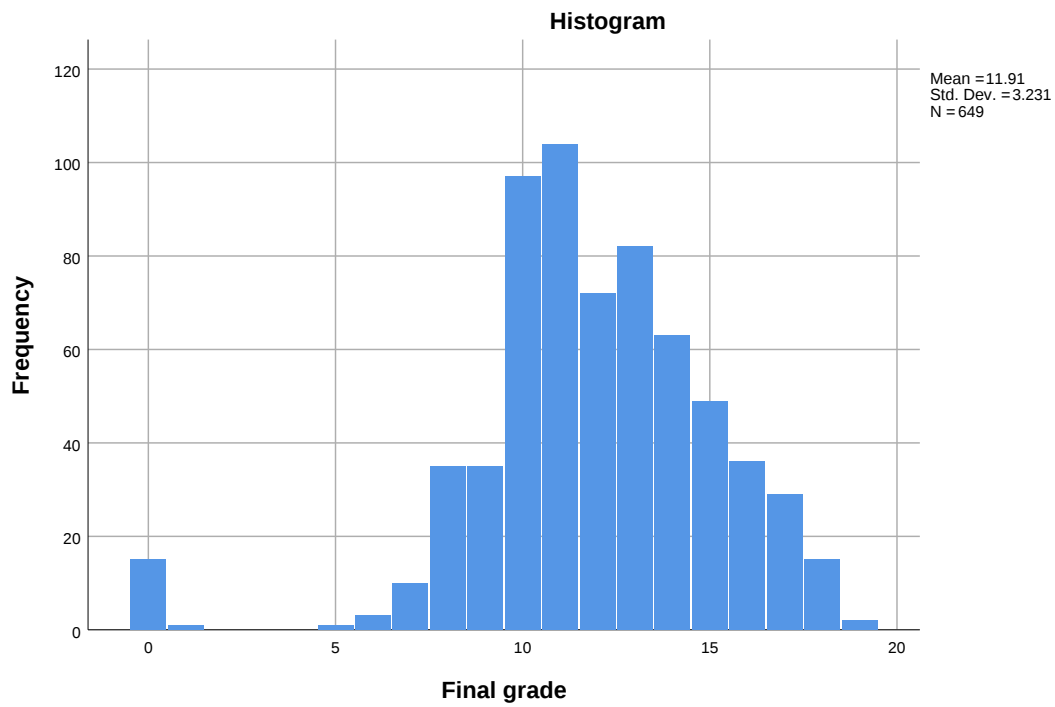
Tests of Normality

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

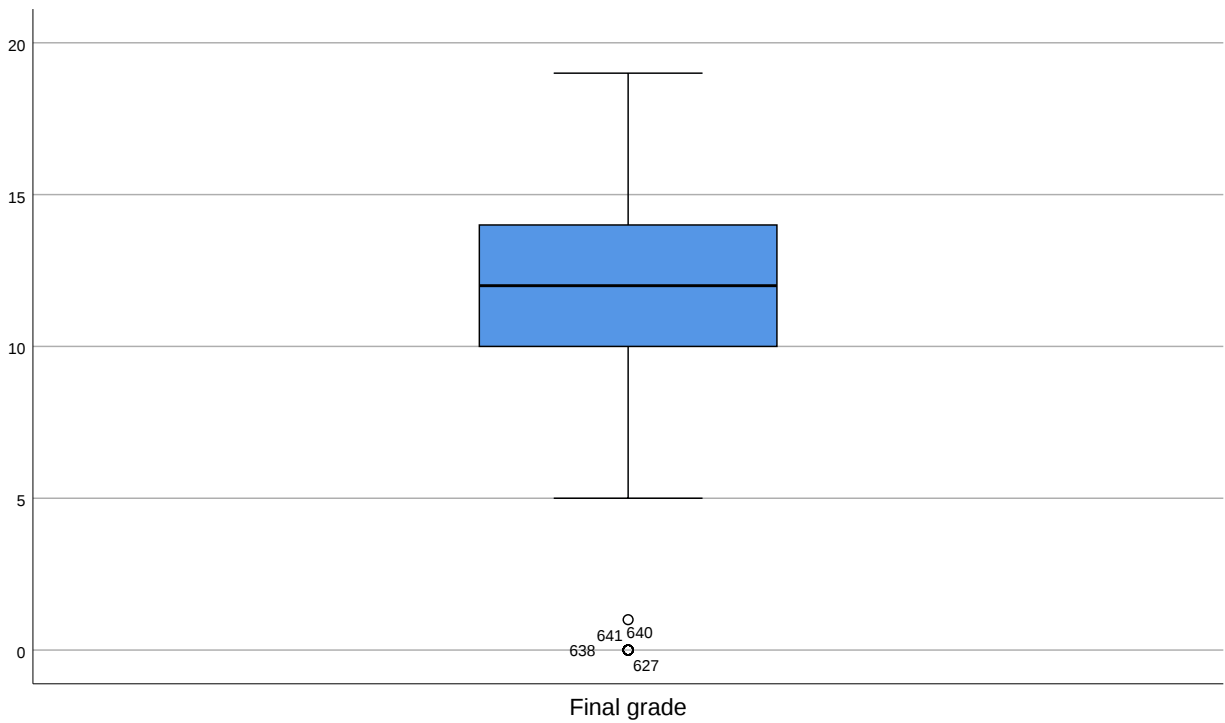
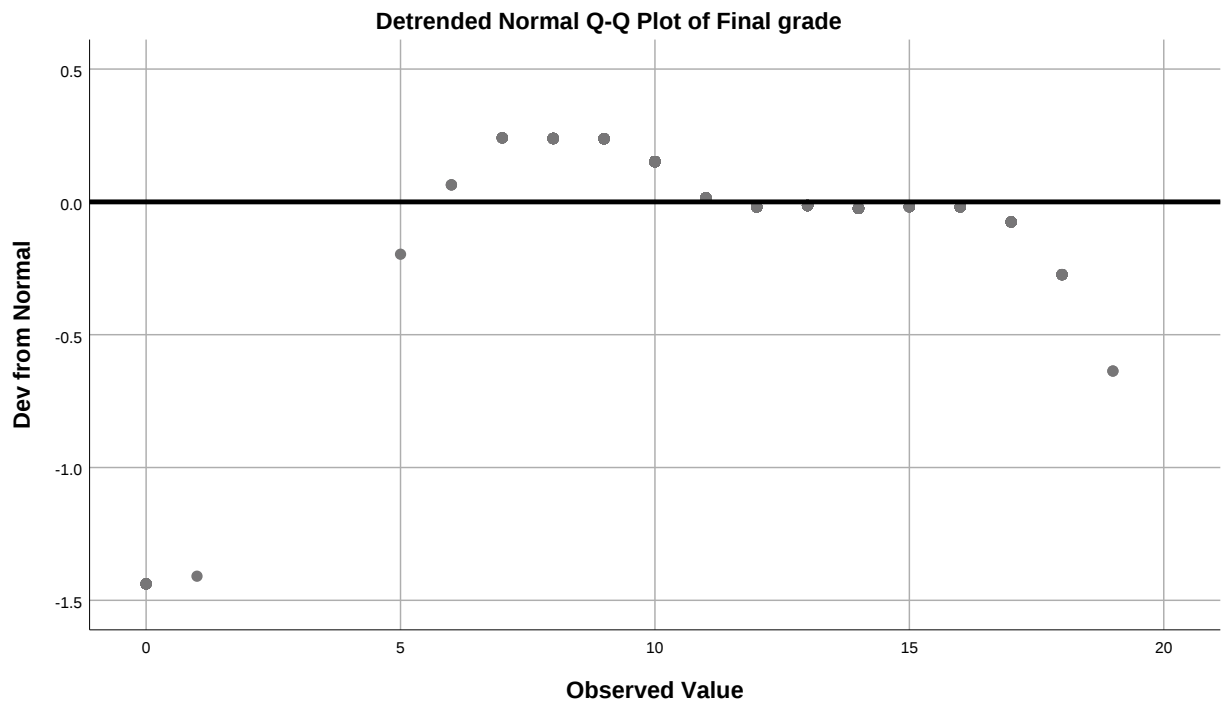
a. Lilliefors Significance Correction

Final grade

Normality context
G3 plots



Normality context
G3 plots



Cramer von Mises result

Cramer von Mises result
G3 normality

List

[CramerVonMisesData] D:\DATA ANALYSIS\B Normality and Assumption Tests\Cramer
von Mises Test\SPSS_Output\sav\Cramer-von-Mises-Test-with-calculation.sav

Cramer von Mises result
G3 normality

cvm_n_calc	cvm_mean_G3	cvm_sd_G3	cvm_w2
649	11.91	3.23	1.12407

Number of cases read: 1 Number of cases listed: 1

CVM calculation detail

CVM calculation detail
First 20 ranks

List

CVM calculation detail
First 20 ranks

cvm_rank uared_gap	G3	cvm_z_G3	cvm_plot_position	cvm_fitted_cdf	cvm_cdf_gap	cvm_sq
1.00 .00000	0	-3.69	.00077	.00011	-.00066	
2.00 .00000	0	-3.69	.00231	.00011	-.00220	
3.00 .00001	0	-3.69	.00385	.00011	-.00374	
4.00 .00003	0	-3.69	.00539	.00011	-.00528	
5.00 .00005	0	-3.69	.00693	.00011	-.00682	
6.00 .00007	0	-3.69	.00847	.00011	-.00836	
7.00 .00010	0	-3.69	.01002	.00011	-.00990	
8.00 .00013	0	-3.69	.01156	.00011	-.01144	
9.00 .00017	0	-3.69	.01310	.00011	-.01298	
10.00 .00021	0	-3.69	.01464	.00011	-.01452	
11.00 .00026	0	-3.69	.01618	.00011	-.01606	
12.00 .00031	0	-3.69	.01772	.00011	-.01761	
13.00 .00037	0	-3.69	.01926	.00011	-.01915	
14.00 .00043	0	-3.69	.02080	.00011	-.02069	
15.00 .00049	0	-3.69	.02234	.00011	-.02223	
16.00 .00055	1	-3.38	.02388	.00037	-.02351	

CVM calculation detail
First 20 ranks

17.00	5	-2.14	.02542	.01627	-.00915
.00008					
18.00	6	-1.83	.02696	.03377	.00680
.00005					
19.00	6	-1.83	.02851	.03377	.00526
.00003					
20.00	6	-1.83	.03005	.03377	.00372
.00001					

Number of cases read: 20 Number of cases listed: 20

CVM grouped context

CVM grouped context
G3 by sex

Explore

Sex group

Case Processing Summary

		Valid		Cases Missing		Total	
sex		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	.204
		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	
		Minimum	0	
		Maximum	19	

CVM grouped context
G3 by sex

Descriptives

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

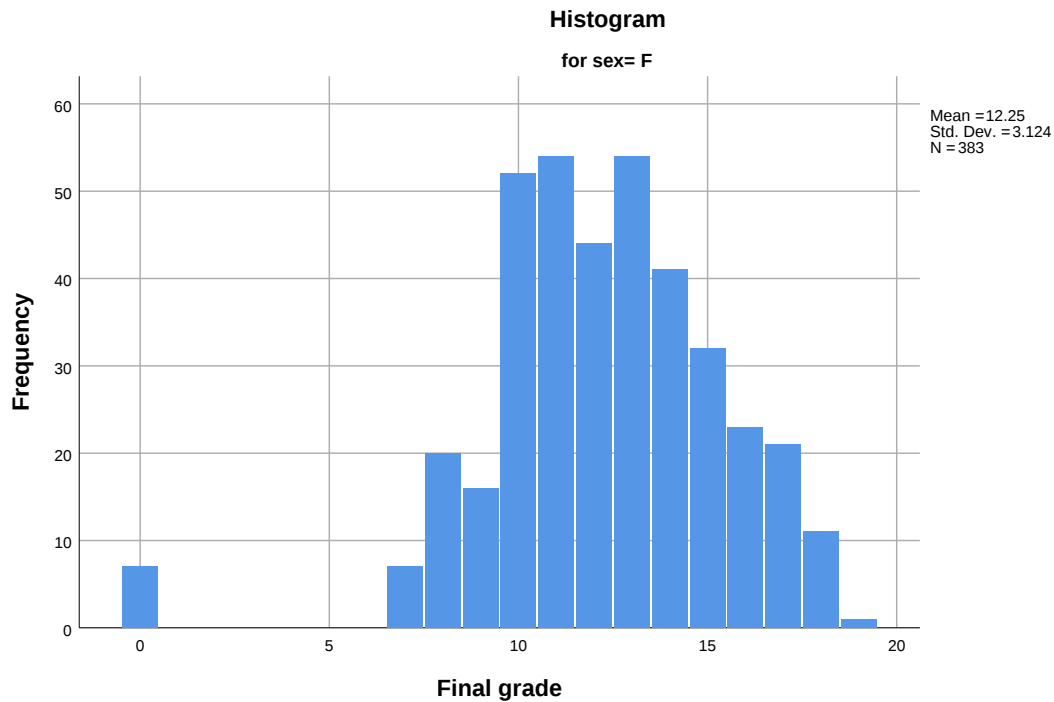
Tests of Normality

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

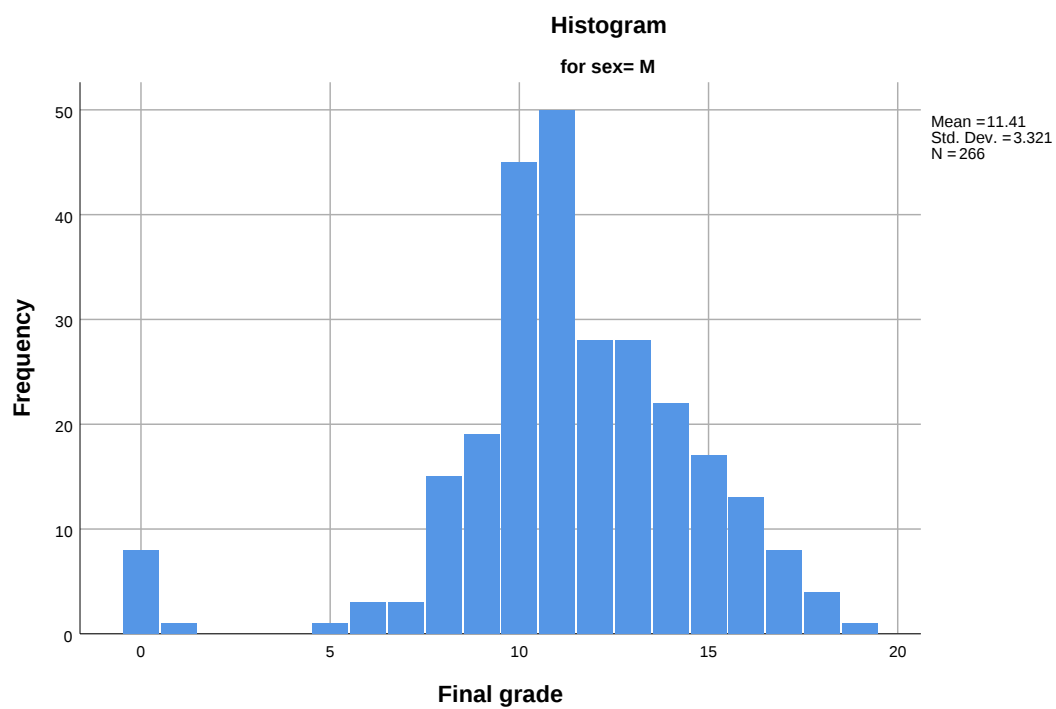
a. Lilliefors Significance Correction

Final grade

Histograms

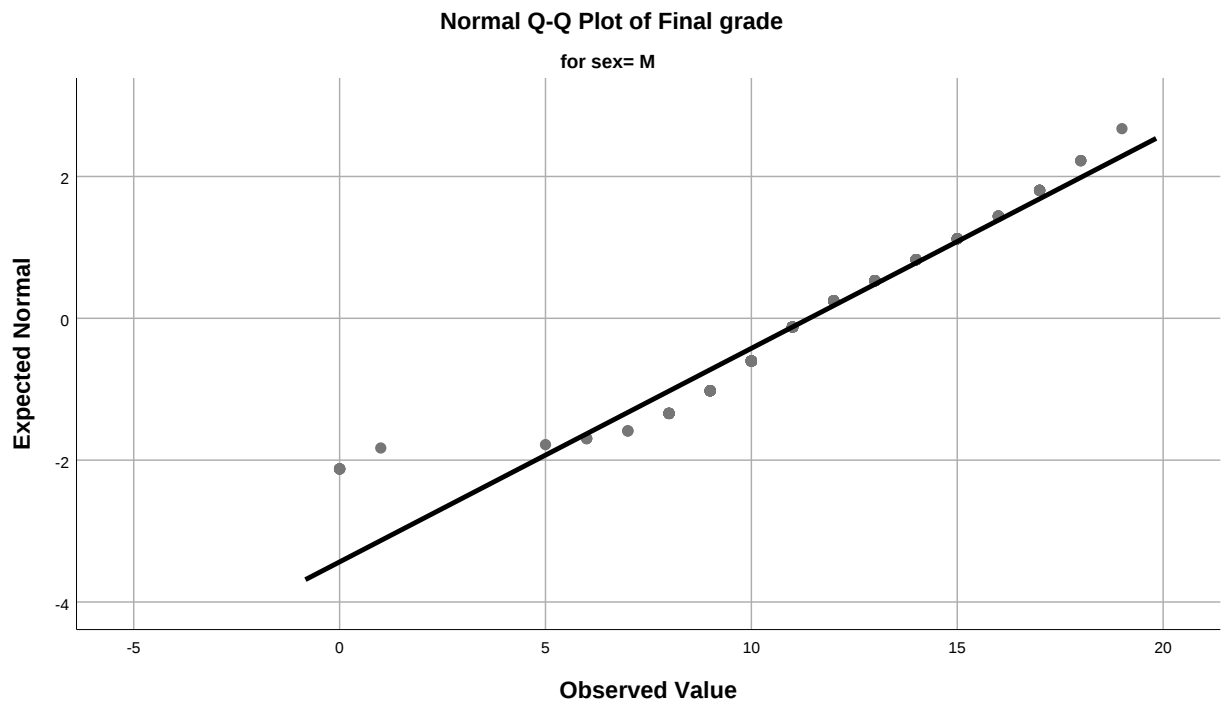
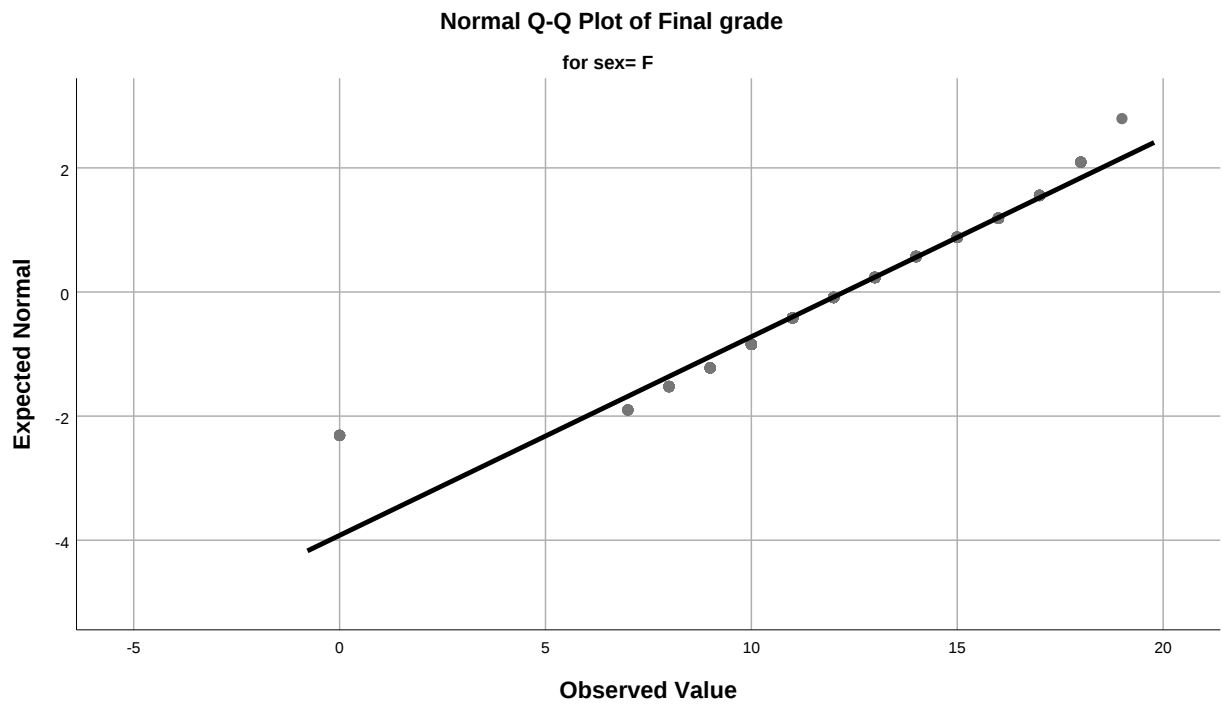


CVM grouped context
G3 by sex



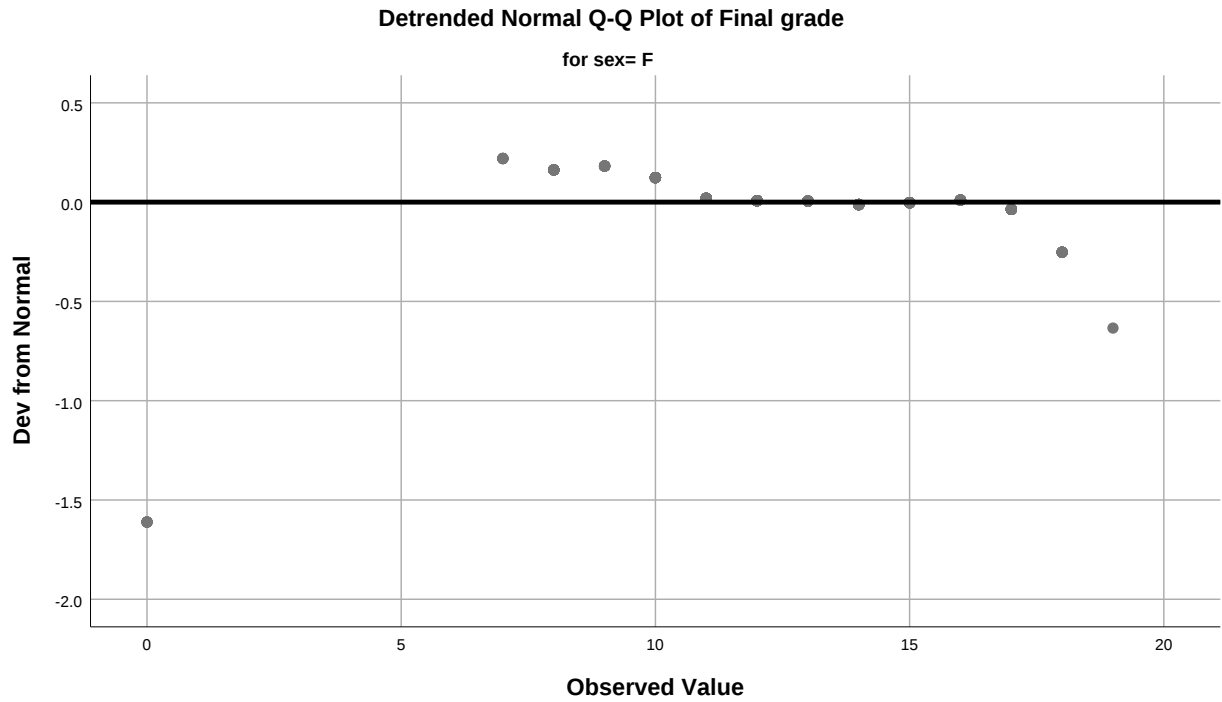
Normal Q-Q Plots

CVM grouped context
G3 by sex



CVM grouped context
G3 by sex

Detrended Normal Q-Q Plots



CVM grouped context
G3 by sex

