

Nr	X	Y1	Y2	Y3	X4	Y4
1	10,00	8,04	9,14	7,46	8,00	6,58
2	8,00	6,95	8,14	6,77	8,00	5,76
3	13,00	7,58	8,74	12,74	8,00	7,71
4	9,00	8,81	8,77	7,11	8,00	8,84
5	11,00	8,33	9,26	7,81	8,00	8,47
6	14,00	9,96	8,10	8,84	8,00	7,04
7	6,00	7,24	6,13	6,08	8,00	5,25
8	4,00	4,26	3,10	5,39	19,00	12,50
9	12,00	10,84	9,13	8,15	8,00	5,56
10	7,00	4,82	7,26	6,42	8,00	7,91
11	5,00	5,68	4,74	5,73	8,00	6,89

Dependent variable: Y1

Independent variable: X

Parameter	Estimate	Standard Error	T Statistic	P-Value
Intercept	3,00009	1,12475	2,66735	0,0257
Slope	0,500091	0,117906	4,24146	0,0022

#### Analysis of Variance

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Model	27,51	1	27,51	17,99	0,0022
Residual	13,7627	9	1,52919		
Total (Corr.)	41,2727	10			

Correlation Coefficient = 0,816421

R-squared = 66,6542 percent

R-squared (adjusted for d.f.) = 62,9492 percent

Standard Error of Est. = 1,2366

Mean absolute error = 0,837405

Durbin-Watson statistic = 3,21229 (P=0,0098)

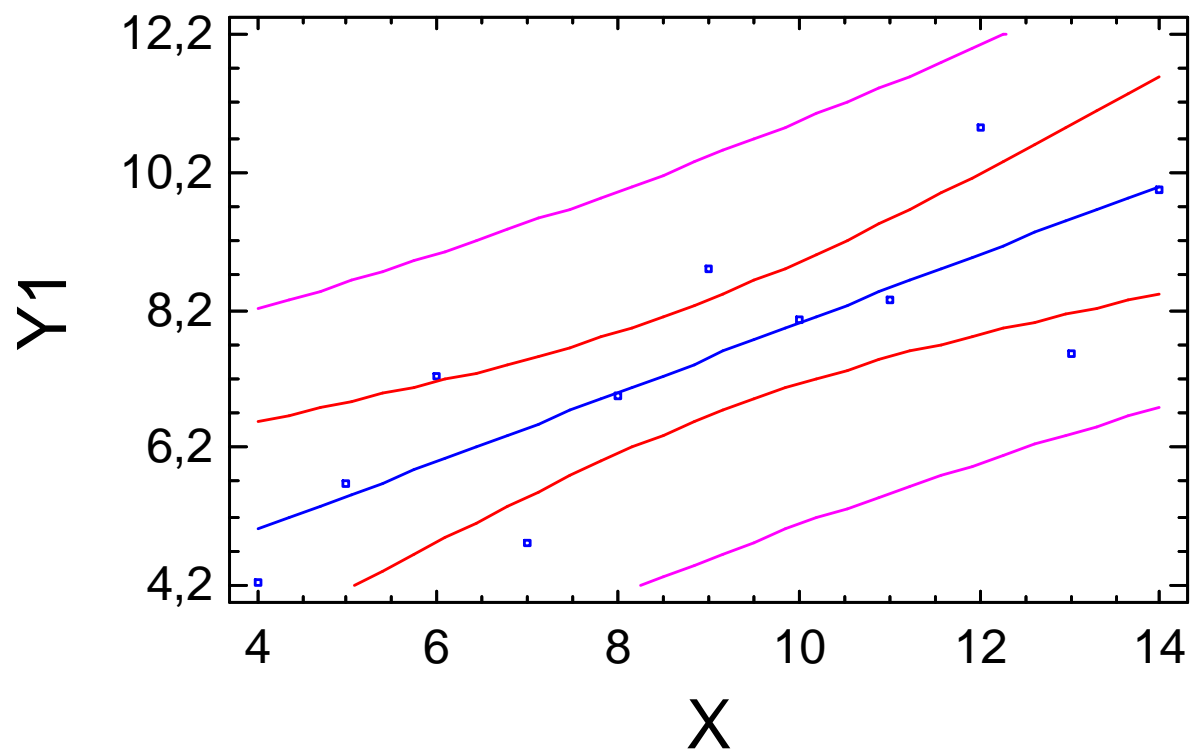
Lag 1 residual autocorrelation = -0,60737

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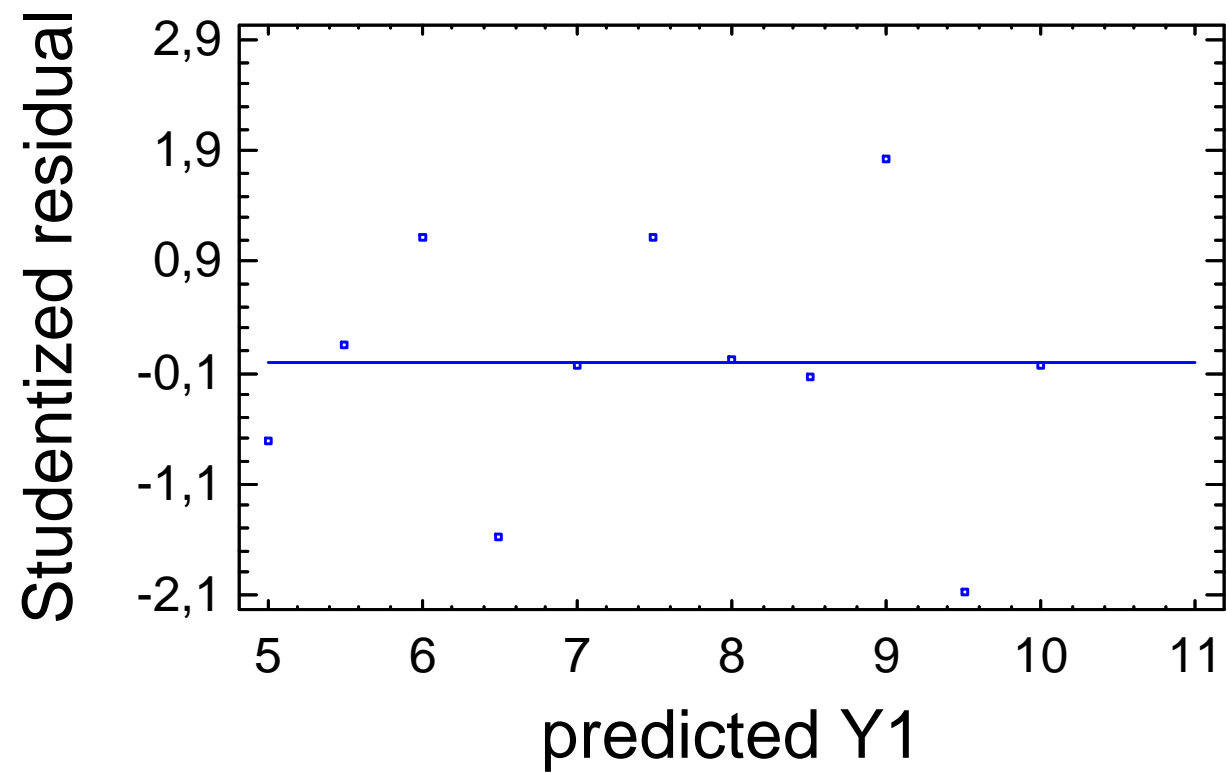
The output shows the results of fitting a linear model to describe the relationship between Y1 and X. The equation of the fitted model is

$$Y1 = 3,00009 + 0,500091 \cdot X$$

Plot of Fitted Model



Residual Plot



Dependent variable: Y2

Independent variable: X

Parameter	Estimate	Standard Error	T Statistic	P-Value
Intercept	3,00091	1,1253	2,66676	0,0258
Slope	0,5	0,117964	4,23859	0,0022

#### Analysis of Variance

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Model	27,5	1	27,5	17,97	0,0022
Residual	13,7763	9	1,5307		
Total (Corr.)	41,2763	10			

Correlation Coefficient = 0,816237

R-squared = 66,6242 percent

R-squared (adjusted for d.f.) = 62,9158 percent

Standard Error of Est. = 1,23721

Mean absolute error = 0,967934

Durbin-Watson statistic = 2,18757 (P=0,3724)

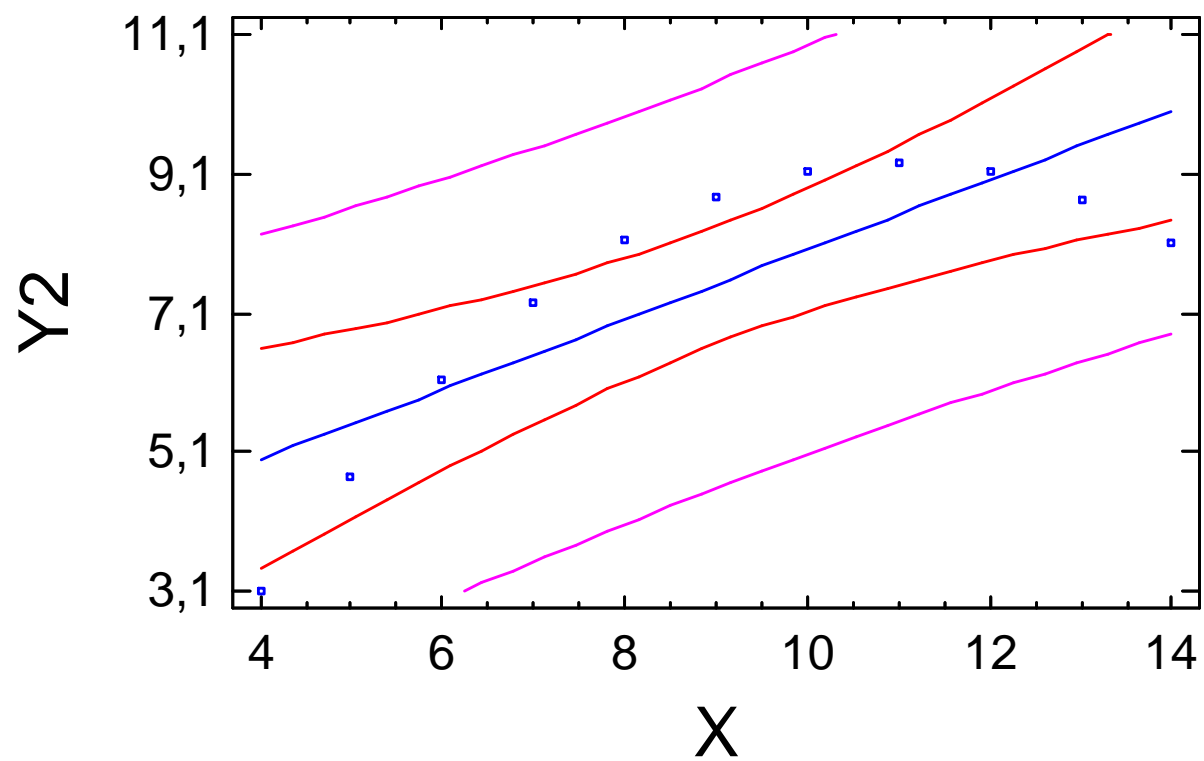
Lag 1 residual autocorrelation = -0,161892

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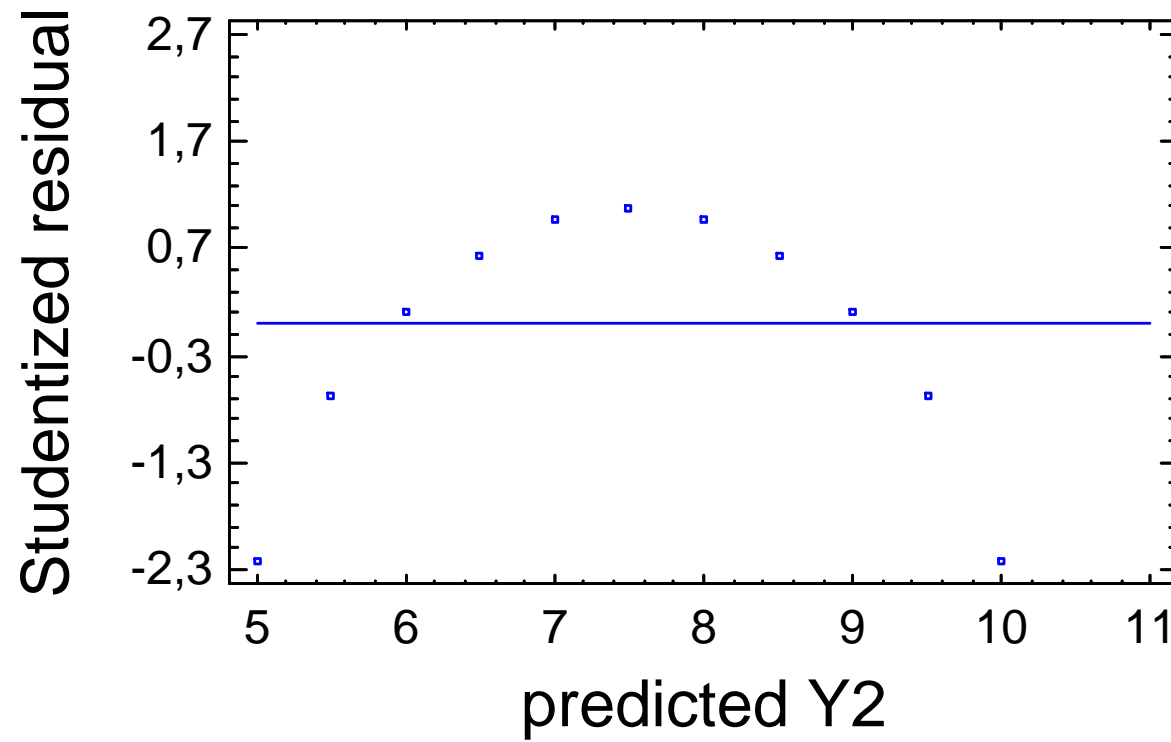
The output shows the results of fitting a linear model to describe the relationship between Y2 and X. The equation of the fitted model is

$$Y2 = 3,00091 + 0,5 \cdot X$$

Plot of Fitted Model



Residual Plot



Dependent variable: Y3

Independent variable: X

Parameter	Estimate	Standard Error	T Statistic	P-Value
Intercept	3,00245	1,12448	2,67008	0,0256
Slope	0,499727	0,117878	4,23937	0,0022

#### Analysis of Variance

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Model	27,47	1	27,47	17,97	0,0022
Residual	13,7562	9	1,52847		
Total (Corr.)	41,2262	10			

Correlation Coefficient = 0,816287

R-squared = 66,6324 percent

R-squared (adjusted for d.f.) = 62,9249 percent

Standard Error of Est. = 1,23631

Mean absolute error = 0,715967

Durbin-Watson statistic = 2,14358 (P=0,4015)

Lag 1 residual autocorrelation = -0,0842816

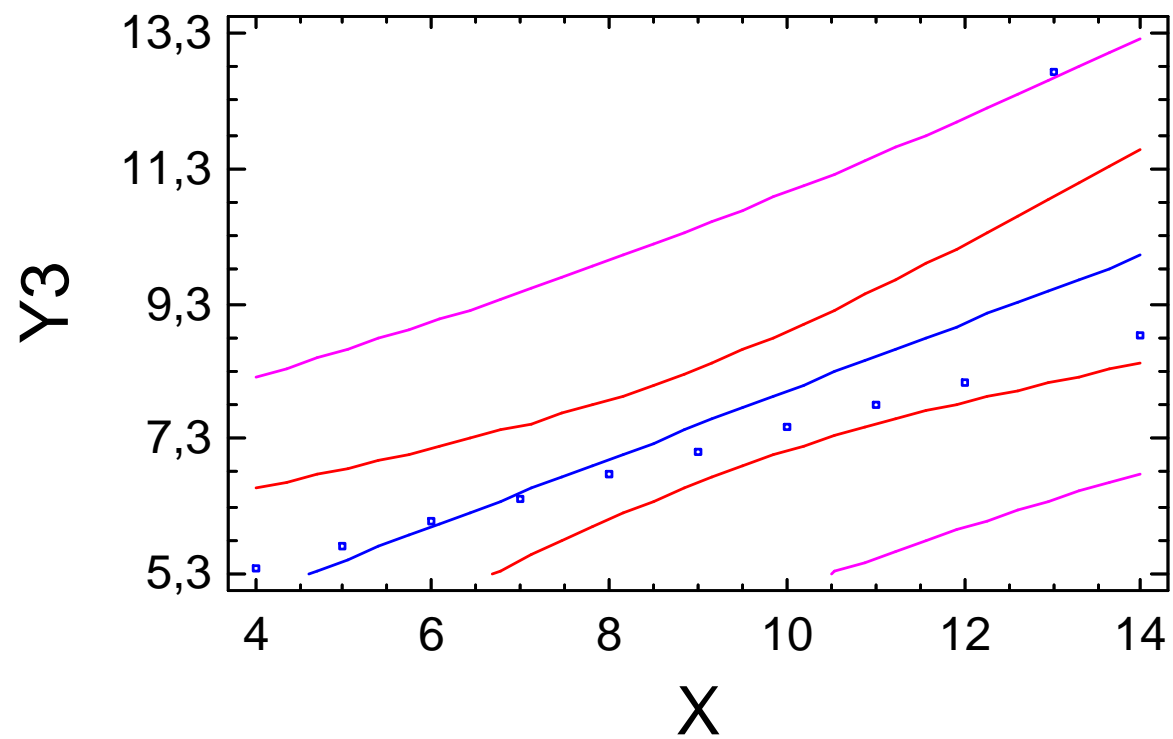
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The output shows the results of fitting a linear model to describe the relationship between Y3 and X. The equation of the fitted model is

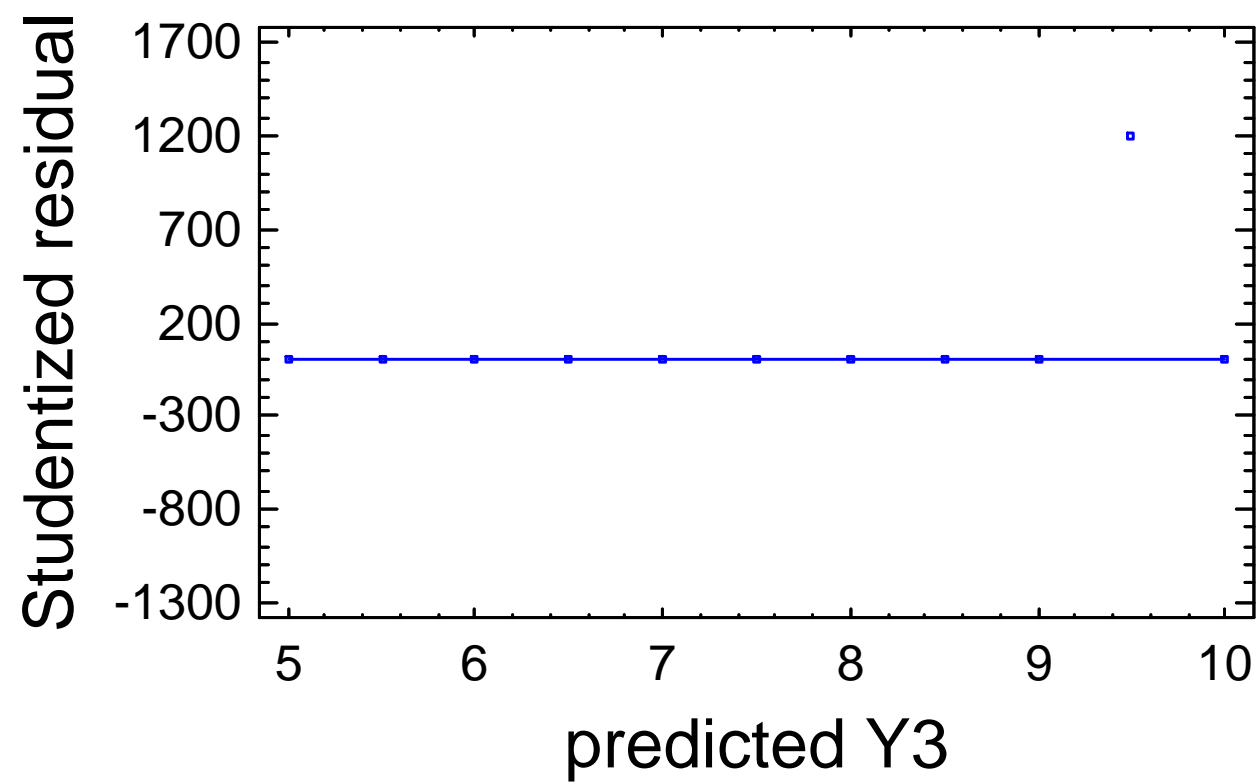
$$Y3 = 3,00245 + 0,499727 \cdot X$$



Plot of Fitted Model



# Residual Plot



Dependent variable: Y4  
Independent variable: X4

Parameter	Estimate	Standard Error	T Statistic	P-Value
Intercept	3,00173	1,12392	2,67076	0,0256
Slope	0,499909	0,117819	4,24303	0,0022

#### Analysis of Variance

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Model	27,49	1	27,49	18,00	0,0022
Residual	13,7425	9	1,52694		
Total (Corr.)	41,2325	10			

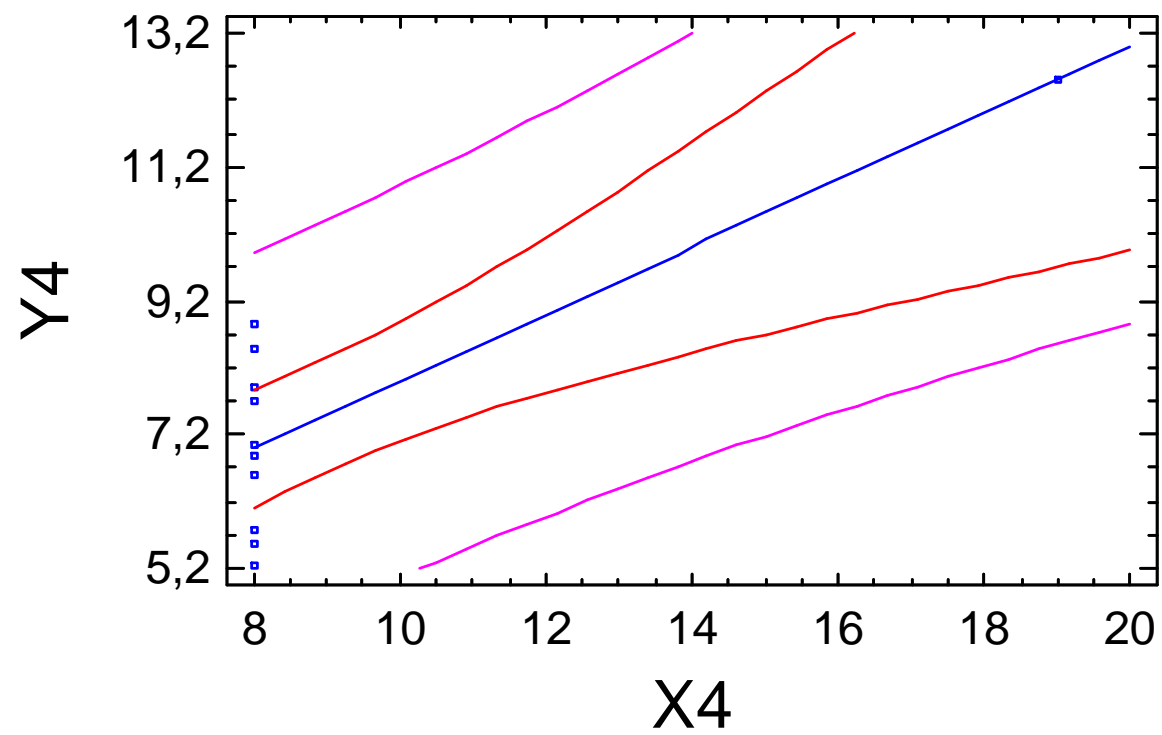
Correlation Coefficient = 0,816521  
R-squared = 66,6707 percent  
R-squared (adjusted for d.f.) = 62,9675 percent  
Standard Error of Est. = 1,2357  
Mean absolute error = 0,902727  
Durbin-Watson statistic = 1,66222 (P=0,2899)  
Lag 1 residual autocorrelation = 0,161992

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The output shows the results of fitting a linear model to describe the relationship between Y4 and X4. The equation of the fitted model is

$$Y4 = 3,00173 + 0,499909 \cdot X4$$

Plot of Fitted Model



Plot of Y4

