Stats.Blue

Polynomial Regression Calculator

Variable Names (optional):

	Explanatory (x)	Response (y)
Data goes here (enter numbers in columns):	0.000002345 -0.000001234 0.000005678 -0.000008901 0.000006789 -0.000001234 0.000004567 -0.000009012 0.000003456 -0.000002345	-0.000004678 0.000007890 -0.000009012 0.000003456 -0.000002345 0.000008901 -0.000007890 0.000005678 -0.000006789 0.000001234

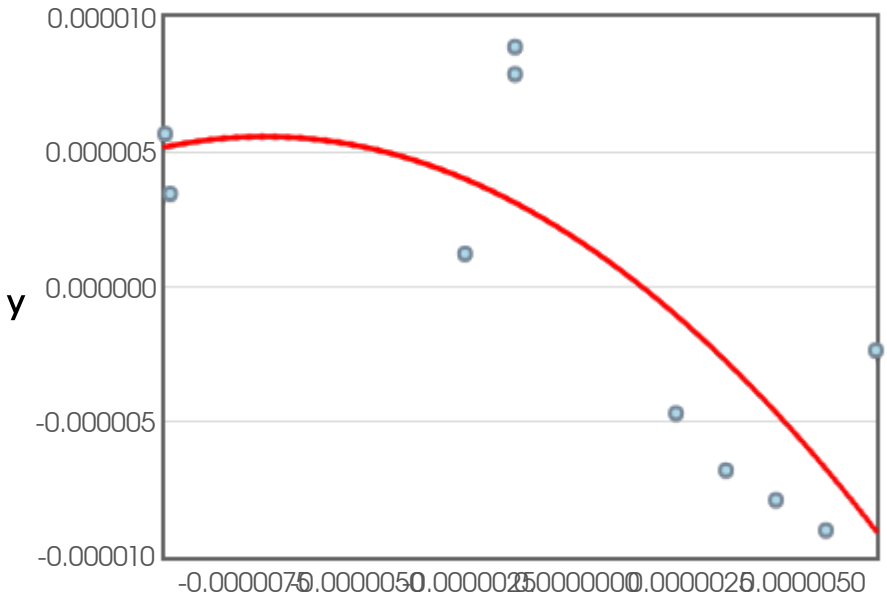
Include Regression Curve: ☑

Polynomial Model: $y = \beta_0 + \beta_1 x + \beta_2 x^2$

Degree: 2

Increase Degree | Decrease Degree

Display output to 4 decimal places | Calculate



x

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Regression Polynomial: $y = -79107.6484x^2 - 1.0758x + 0$

R-squared: $r^2 = 0.61$

Adjusted R-squared: $r^2_{\text{adj}} = 0.5613$

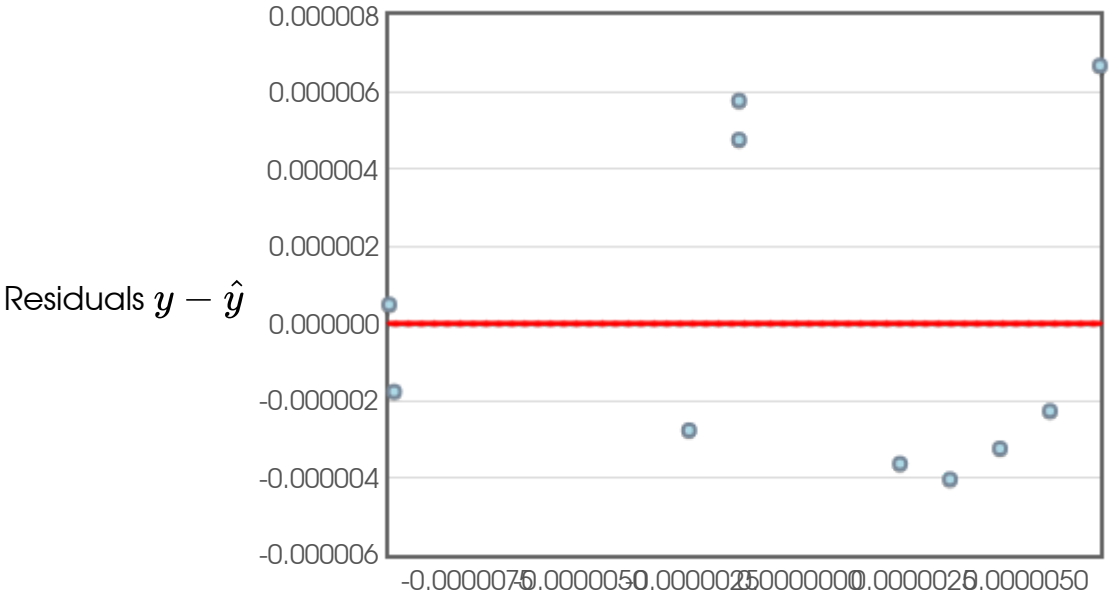
Residual Standard Error: 0 on 7 degrees of freedom

Coefficient	Estimate	Standard Error	t-statistic	p-value
β_0	0	0	0.8404	0.4285
β_1	-1.0758	0.3282	-3.2776	0.0135
β_2	-79107.6484	60089.0363	-1.3165	0.2295

Analysis of Variance Table

Source	df	SS	MS	F-statistic	p-value
Regression	2	0	0	5.4746	0.037
Residual Error	7	0	0		
Total	9	0	0		

Residual Plot



x

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