



$$2) y = bx^a$$

$$\ln(y) = \ln(bx^a)$$

$$\ln(y) = \ln(b) + a \ln(x)$$

$$y = b + ax$$

$$y = a_1 + b_1$$

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x	y	x	y	x ²	y ²	xy
2	1.58	9	0.437421	4	0.20923744	0.414844
5	12.88	5	2.532108	25	6.41151	12.660341
7	56.8	7	4.089536	49	16.3178037	23.276744
9	132.5	9	4.88681	81	27.27684	23.974245
13	201.56	17	5.206027	169	28.154560	68.97513
17	223.14	17	5.446722	289	29.340381	92.08428
21	262.23	21	5.569112	441	31.0162331	116.953662
25	298.56	25	5.698447	625	32.478269	142.47427
29	1140.45	29	33.906634	1683	167.802299	306.322231

$$\begin{vmatrix} 1683 & 99 \\ 99 & 8 \end{vmatrix} \begin{vmatrix} a \\ b \end{vmatrix} = \begin{vmatrix} 306.322737 \\ 162.807299 \end{vmatrix}$$

$$1683a + 99b = 306.322737$$

$$99a + 8b = 162.807299$$

$$a = -3.42052$$

$$b = 68.416253$$

$$r = \frac{8(306.322737) - (99)(162.807299)}{\sqrt{[8(1683) - 99^2][8(167807) - (33.906634)^2]}} = 0.82861457$$

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