

Original Data Set

x	y	
1.04	0.02	
5.2	0.094	$y_{\text{unknown}} = 0.241$
10.4	0.24	
26	0.49	
52	1.1	
104	2.02	

D = 46535.8 $s_y = 0.04411$ $R^2 = 0.99739$	value	std. dev.	% relative uncertainty
m	0.0196	0.001	2.5593
b	0.0127	0.024	192.12
x	11.6632	2.4956	21.397

95% Confidence Intervals			t =	2.7764
m=	0.0196	+/-	0.0014	
b=	0.0127	+/-	0.068	
x _{unk} =	11.663	+/-	6.9289	

“New” Data Set

x	y	
0.56	1.02	
1.02	2.45	$y_{\text{unknown}} = 11.1$
3.45	6.63	
9.84	19.8	
22.3	42.1	

D = 1655.25 $s_y = 0.61025$ $R^2 = 0.99905$	value	std. dev.	% relative uncertainty
m	1.8860	0.034	1.7784
b	0.3795	0.370	97.395
x	5.6843	0.35582	6.2597

95% Confidence Intervals			t =	3.1824
m=	1.886	+/-	0.1067	
b=	0.3795	+/-	1.1764	
x _{unk} =	5.6843	+/-	1.1324	