

Original Data Set

x	y	
1.46	346	
4.55	1240	$y_{\text{unknown}} = 1820$
8.04	2880	
12.1	4150	

$s_y = 186.476$	value	std. dev.	% relative uncertainty
m	368.5084	23.507	6.3789
b	-255.1235	179.749	-70.46
x	5.6311	0.56871	10.099

95% Confidence Intervals		t =	4.3027
m=	368.51	+/-	101.14
b=	-255.1	+/-	773.4
$x_{\text{unk}}=$	5.6311	+/-	2.4469

"New" Data Set

x	y	
1	11	
2	20	$y_{\text{unknown}} = 26$
3	33	
4	39	
5	52	

$s_y = 1.81659$	value	std. dev.	% relative uncertainty
m	10.1000	0.574	5.6877
b	0.7000	1.905	272.18
x	2.5050	0.19903	7.9454

95% Confidence Intervals		t =	3.1824
m=	10.1	+/-	1.8282
b=	0.7	+/-	6.0634
$x_{\text{unk}}=$	2.505	+/-	0.6334