

9 $f(x) = -\frac{7}{2}x - 3$ $g(x) = -\frac{2x+6}{7}$

$\left(\frac{2(x+3)}{x+6}\right)$

$\frac{2}{x} = x$

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1-7 Linear Models and Scatterplots

Ex 1 Construct a scatter plot of the following data.

Height (in.)	Shoe size
68	10
61	8
57	6
60	7
58	7
66	9
65	9
58	8

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Ex 2 Describe the correlation between the points.

- positive
- negative
- linear
- non-linear
- no correlation

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Ex 3 Use a calculator to graph a scatter plot of the data and find the best-fit line through the data.

LinReg
 $y = ax + b$
 $a = .2871794872$
 $b = -9.697435897$

$y = .29x + -9.7$

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Ex 4 Use the linear model to predict the shoe size of someone who is 70 inches tall.

$y = .29x + -9.7$

$x = 70$

$y = 10.6$
 10.5
 11

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Homework
 p.78
 #1-19 odds

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