5 - 2 Slope and Direct Variation

direct variation: y = Kx

k is the <u>Constant</u> of variation

Find the constant of variation of each of the following equations.

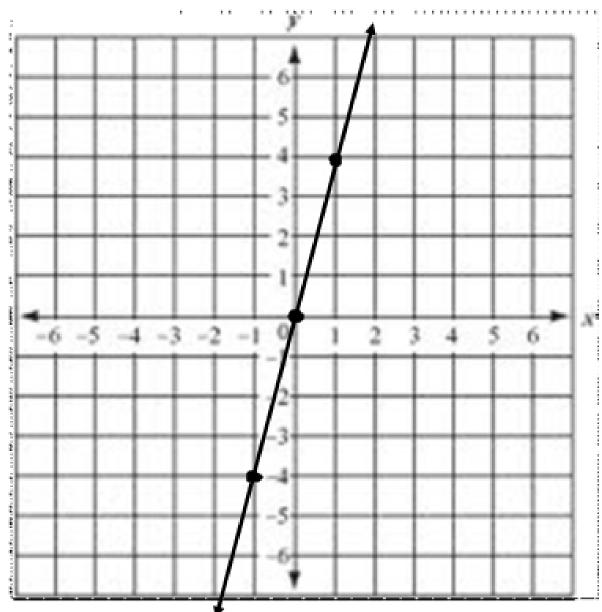
Ex:
$$y = 3x$$



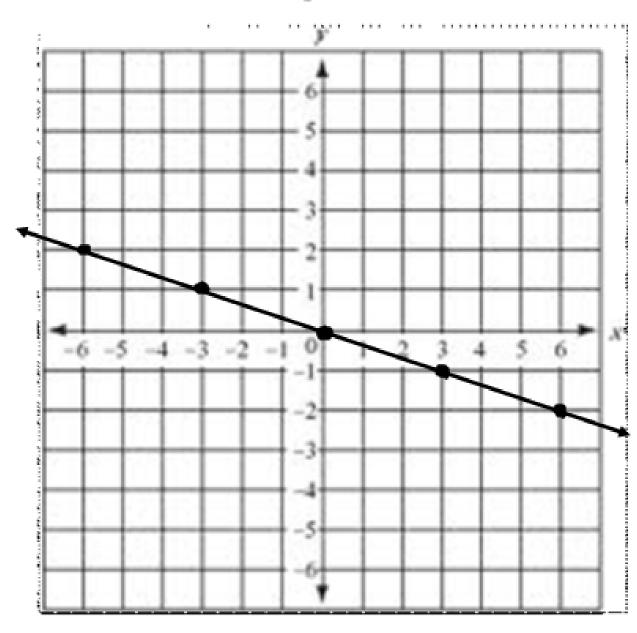
Ex:
$$y = -2x (-2)$$



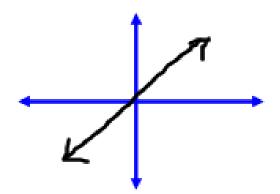
Ex: Graph y = 4x.



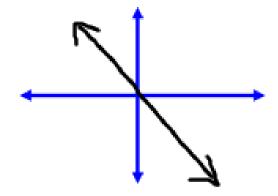
Ex: Graph $y = -\frac{1}{3}x$.



Positive slope:



Negative slope:



Suppose y varies directly as x, and y = 28 when x = 7.

a.) Write a direct equation that relates x and y.

b.) Use the direct variation equation to find x when y = 52.

Suppose y varies directly as x, and y = 9 when x = -3.

a.) Write a direct equation that relates x and y. $q = \kappa_X$

b.) Use the direct variation equation to find x when y = 15.

Homework:

p. 267 #4-14, 34, 36, 38