

Mr. Fahrenbacher
Algebra 12-22
Point-Slope Guided Practice Answers

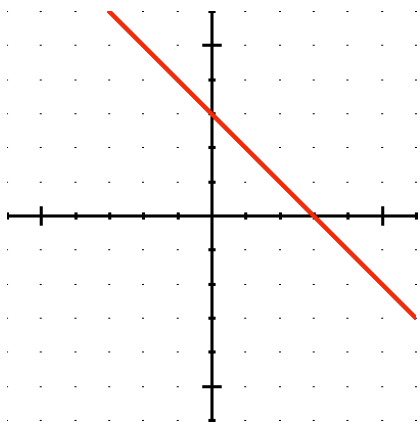
1) $y - 4 = -2(x + 1)$

2) Try it in bubble blaster to double check!

$$y - 1 = -(x - 2)$$

Slope = -1

A point is (2, 1)



3) $m = \frac{4 - 3}{4 - 2} = \frac{1}{2}$

$$y - 3 = \frac{1}{2}(x - 2) \quad \text{or} \quad y - 4 = \frac{1}{2}(x - 4)$$

4) Slope = $\frac{60}{1000} = \frac{3}{50}$

A point: (1000, 250)

$$y - 250 = \frac{3}{50}(x - 1000)$$

5) Yes! The slope between data points is the same:

$$\frac{1.06 - 0.37}{4 - 1} = 0.23$$

$$\frac{1.29 - 1.06}{5 - 4} = 0.23$$

$$\frac{2.44 - 1.29}{10 - 5} = 0.23$$

$$\frac{2.90 - 2.44}{12 - 10} = 0.23$$

There are many correct equations:

$$y - 0.37 = 0.23(x - 1)$$

$$y - 1.06 = 0.23(x - 4)$$

$$y - 1.29 = 0.23(x - 5)$$

$$y - 2.44 = 0.23(x - 10)$$

$$y - 2.90 = 0.23(x - 12)$$