

Point Slope Form Practice

Date _____ Period _____

Write the point-slope form of the equation of the line through the given point with the given slope.

1) through: $(2, -1)$, slope = 2

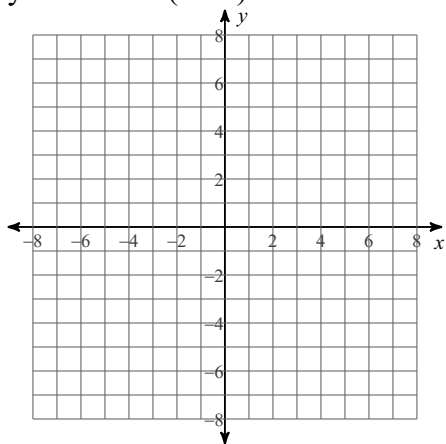
2) through: $(1, 3)$, slope = 7

3) through: $(-2, 5)$, slope = $-\frac{4}{3}$

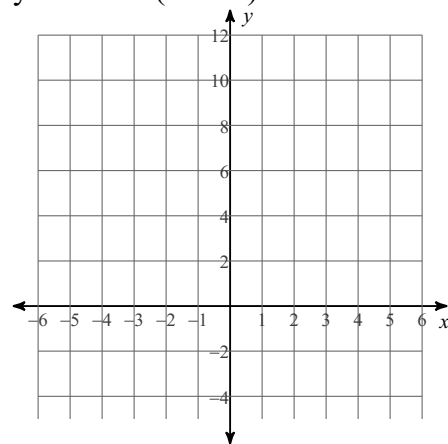
4) through: $(-5, 4)$, slope = -1

Graph the equation.

5) $y + 3 = -3/4 (x - 2)$

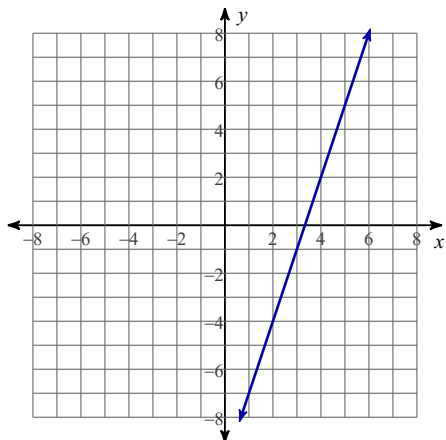


6) $y - 1 = 7/2 (x + 4)$

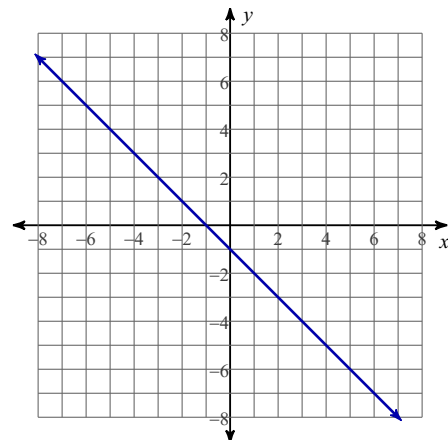


Write the equation in point slope form.

7)



8)



Write the point-slope form of the equation of the line through the given points.

9) through: $(-4, 2)$ and $(-5, -3)$

10) through: $(-4, 4)$ and $(4, -1)$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

11) through: $(-3, 4)$, slope = $-\frac{5}{3}$

12) through: $(-3, 1)$, slope = $\frac{4}{3}$

Write the slope-intercept form of the equation of the line through the given points. Find the slope, then write the equation in point slope form, and then use your properties of equality to rewrite into slope intercept form.

13) through: $(-5, -2)$ and $(1, 4)$

14) through: $(0, 5)$ and $(2, -2)$

Write the slope-intercept form of the equation of each line.

15) $5x + 4y = -24$

16) $2x - y = -4$

17) $-3x - 3 = -4y$

18) $-y - 6x = -3$

Answers to Point Slope Form Practice (ID: 1)

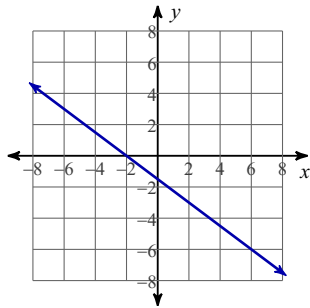
1) $y + 1 = 2(x - 2)$

2) $y - 3 = 7(x - 1)$

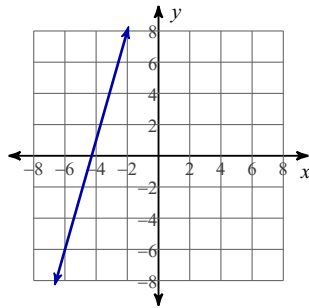
3) $y - 5 = -\frac{4}{3}(x + 2)$

4) $y - 4 = -(x + 5)$

5)



6)



7) $y + 4 = 3(x - 2)$, and other correct answers exist.

8) $y - 3 = -(x + 4)$, and other correct answers exist.

9) $y - 2 = 5(x + 4)$

10) $y - 4 = -\frac{5}{8}(x + 4)$

11) $y = -\frac{5}{3}x - 1$

12) $y = \frac{4}{3}x + 5$

13) $y = x + 3$

14) $y = -\frac{7}{2}x + 5$

15) $y = -\frac{5}{4}x - 6$

16) $y = 2x + 4$

17) $y = \frac{3}{4}x + \frac{3}{4}$

18) $y = -6x + 3$