

Name: _____

Writing Equations in Point – Slope Form

Exercise 1: Write the point-slope form of an equation for each line passing through the given point and having the given slope.

1) $(-1, 4); m = -3$

2) $(0, 0); m = 1$

3) $(0, 2); m = -5$

4) $(7, -3); m = 7$

5) $(-3, -3); m = 5$

6) $(7, 2); m = 5$

7) $(-3, 6); m = \frac{1}{2}$

8) $(3, -2); m = \frac{1}{4}$

9) $(8, -3); m = 0$

10) $(5, 0); m = 0$

11) $\left(\frac{1}{2}, \frac{1}{3}\right); m = 0$

12) $(9, -1); m = 6$

13) $(5, -3); m = 6$

14) $(5, 4); m = 2$

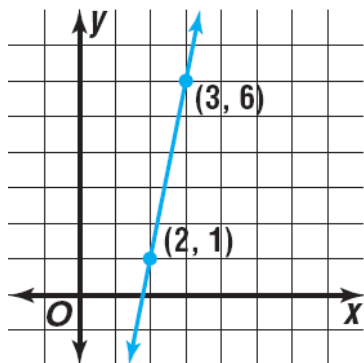
15) $(3, -2); m = \text{undefined}$

16) $(-2, 5); m = \text{undefined}$

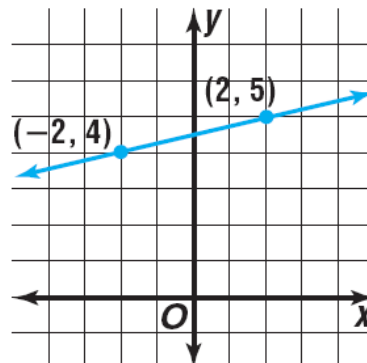
17) $(7, -1); m = \text{undefined}$

Exercise 2: Write the point-slope form of an equation for each line whose graph is shown below:

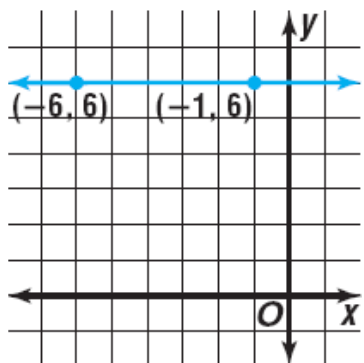
1)



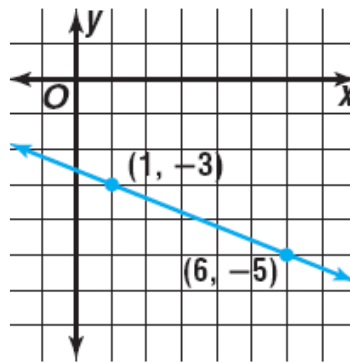
2)



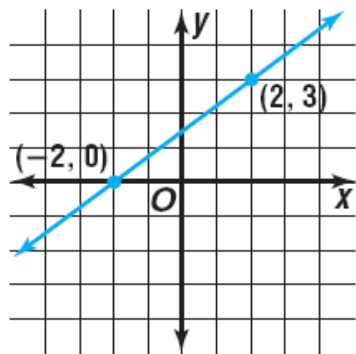
3)



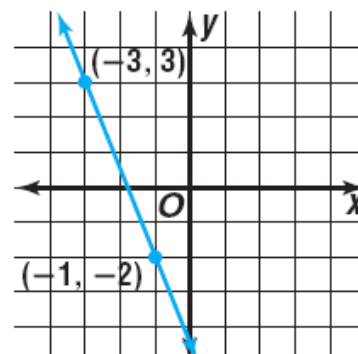
4)



5)



6)



Exercise 3: Find the coordinates of a point through which the graph of $y - 11 = \frac{3}{4}(x - 8)$ passes, if the y-coordinate is twice the x-coordinate.