

Name : _____

Score : _____

Point-slope Form

Sheet 1

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in point-slope form.

1) $(-2, 3)$ and slope $m = 9$

2) $(4, 0)$ and slope $m = -7$

3) $(-7, -4)$ and slope $m = 6$

4) $(8, -1)$ and slope $m = -3$

5) $(1, 1)$ and slope $m = 0$

6) $(-5, -6)$ and slope $m = \frac{3}{8}$

7) $(-9, 0)$ and slope $m = -\frac{7}{4}$

8) $(-3, 8)$ and slope $m = -1$

9) $(-8, 1)$ and slope $m = -6$

10) $(-2, 0)$ and slope $m = 4$

Point-slope Form

Sheet 1

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in point-slope form.

1) $(-2, 3)$ and slope $m = 9$

$$y - 3 = 9(x + 2)$$

2) $(4, 0)$ and slope $m = -7$

$$y = -7(x - 4)$$

3) $(-7, -4)$ and slope $m = 6$

$$y + 4 = 6(x + 7)$$

4) $(8, -1)$ and slope $m = -3$

$$y + 1 = -3(x - 8)$$

5) $(1, 1)$ and slope $m = 0$

$$y - 1 = 0$$

6) $(-5, -6)$ and slope $m = \frac{3}{8}$

$$y + 6 = \frac{3}{8}(x + 5)$$

7) $(-9, 0)$ and slope $m = -\frac{7}{4}$

$$y = -\frac{7}{4}(x + 9)$$

8) $(-3, 8)$ and slope $m = -1$

$$y - 8 = -(x + 3)$$

9) $(-8, 1)$ and slope $m = -6$

$$y - 1 = -6(x + 8)$$

10) $(-2, 0)$ and slope $m = 4$

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