

Point-slope Form

Sheet 3

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) $(9, 2)$ and slope $m = 4$

2) $(0, -1)$ and slope $m = -2$

3) $(-3, 7)$ and slope $m = 0$

4) $(1, -8)$ and slope $m = 9$

5) $(-8, 0)$ and slope $m = -9$

7) $(2, 10)$ and slope $m = \frac{1}{5}$

9) $(5, 0)$ and slope $m = -4$

10) $(0, 3)$ and slope $m = 1$

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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) (9, 2) and slope $m = 4$

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

2) (0, -1) and slope $m = -2$

$$y + 1 = -2x$$

3) (-3, 7) and slope $m = 0$

$$y - 7 = 0$$

4) (1, -8) and slope $m = 9$

5) (-8, 0) and slope $m = -9$

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

7) (2, 10) and slope $m = \frac{1}{5}$

$$y - 10 = 6(x - 2)$$

9) (5, 0) and slope $m = -4$

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

10) (0, 3) and slope $m = 1$

$$y - 3 = x$$

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