

Point-slope Form

Sheet 2

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

2) (0, -9) and slope $m = -\frac{2}{7}$

3) (2, -1) and slope $m = -8$

4) (-3, 3) and slope $m = 0$

5) (-6, -5) and slope $m = -5$

7) (1, -4) and slope $m = \frac{1}{3}$

9) (0, 7) and slope $m = -4$

10) (9, -2) and slope $m = -\frac{1}{5}$

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

$$y - 4 = x - 5$$

2) (0, -9) and slope $m = -\frac{2}{7}$

$$y + 9 = -\frac{2}{7}x$$

3) (2, -1) and slope $m = -8$

$$y + 1 = -8(x - 2)$$

4) (-3, 3) and slope $m = 0$

5) (-6, -5) and slope $m = -5$

$$y + 5 = 3(x + 6)$$

7) (1, -4) and slope $m = 7$

$$y + 4 = 7(x - 1)$$

9) (0, 7) and slope $m = -4$

$$y - 7 = -4x$$

10) (9, -2) and slope $m = -\frac{1}{5}$

$$y + 2 = -\frac{1}{5}(x - 9)$$

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