



Equation of a Line

Name _____

Score _____

PS:09

Find an equation of a line whose slope and point passes through a line. Express the equation in slope-intercept form.

1) slope = $\frac{3}{8}$ and (6, 0)

2) slope = -2 and (-1, 2)

3) slope = 1 and (3, 7)

4) slope = $-\frac{4}{5}$ and (0, -4)

5) slope = -7 and (-2, -2)

6) slope = 5 and (1, -3)

7) slope = $-\frac{8}{9}$ and (9, 5)

8) slope = 2 and (7, -6)

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

10) slope = -3 and (1, 1)



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Answer key

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Find an equation of a line whose slope and point passes through a line. Express the equation in slope-intercept form.

1) slope = $\frac{3}{8}$ and (6, 0)

$$y = \frac{3}{8}x - \frac{9}{4}$$

2) slope = -2 and (-1, 2)

$$y = -2x$$

3) slope = 1 and (3, 7)

$$y = x + 4$$

4) slope = $-\frac{4}{5}$ and (0, -4)

$$y = -\frac{4}{5}x - 4$$

5) slope = -7 and (-2, -2)

$$y = -7x - 16$$

6) slope = 5 and (1, -3)

$$y = 5x - 8$$

7) slope = $-\frac{8}{9}$ and (9, 5)

$$y = -\frac{8}{9}x + 13$$

8) slope = 2 and (7, -6)

$$y = 2x - 20$$

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

$$y = \frac{1}{3}x + \frac{1}{3}$$

10) slope = -3 and (1, 1)

$$y = -3x + 4$$