



Equation of a Line

Name _____

Score _____

PS:08

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

1) slope = -6 and $(4, -1)$

2) slope = 4 and $(3, 3)$

3) slope = $-\frac{3}{5}$ and $(0, 2)$

4) slope = $\frac{1}{2}$ and $(1, 6)$

5) slope = 8 and $(5, -7)$

6) slope = -1 and $(-4, -4)$

7) slope = $\frac{4}{7}$ and $(6, 8)$

8) slope = $-\frac{2}{3}$ and $(-3, 0)$

9) slope = 3 and $(9, -10)$

10) slope = $-\frac{1}{4}$ and $(2, 4)$



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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 = -6 and $(4, -1)$

$$y = -6x + 23$$

2) slope = 4 and $(3, 3)$

$$y = 4x - 9$$

3) slope = $-\frac{3}{5}$ and $(0, 2)$

$$y = -\frac{3}{5}x + 2$$

4) slope = $\frac{1}{2}$ and $(1, 6)$

$$y = \frac{1}{2}x + \frac{11}{2}$$

5) slope = 8 and $(5, -7)$

$$y = 8x - 47$$

6) slope = -1 and $(-4, -4)$

$$y = -x - 8$$

7) slope = $\frac{4}{7}$ and $(6, 8)$

$$y = \frac{4}{7}x + \frac{32}{7}$$

8) slope = $-\frac{2}{3}$ and $(-3, 0)$

$$y = -\frac{2}{3}x - 2$$

9) slope = 3 and $(9, -10)$

$$y = 3x - 37$$

10) slope = $-\frac{1}{4}$ and $(2, 4)$

$$y = -\frac{1}{4}x + \frac{9}{2}$$