



Equation of a Line

Name _____

Score _____

PS:12

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

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

2) slope = -5 and $(1, 6)$

3) slope = $\frac{1}{2}$ and $(0, -1)$

4) slope = $-\frac{1}{6}$ and $(5, 5)$

5) slope = -3 and $(-3, 4)$

6) slope = 12 and $(2, 1)$

7) slope = 8 and $(-4, -7)$

8) slope = $\frac{1}{4}$ and $(6, 8)$

9) slope = $-\frac{2}{3}$ and $(10, -6)$

10) slope = $\frac{6}{7}$ and $(1, 5)$



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Answer key

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

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

$$\mathbf{x + 4y = 6}$$

3) slope = $\frac{1}{2}$ and $(0, -1)$

$$\mathbf{x - 2y = 2}$$

5) slope = -3 and $(-3, 4)$

$$\mathbf{3x + y = -5}$$

7) slope = 8 and $(-4, -7)$

$$\mathbf{8x - y = -25}$$

9) slope = $-\frac{2}{3}$ and $(10, -6)$

$$\mathbf{2x + 3y = 2}$$

2) slope = -5 and $(1, 6)$

$$\mathbf{4x + 7y = -11}$$

4) slope = $-\frac{1}{6}$ and $(5, 5)$

$$\mathbf{x + 6y = 35}$$

6) slope = 12 and $(2, 1)$

$$\mathbf{12x - y = 23}$$

8) slope = $\frac{1}{4}$ and $(6, 8)$

$$\mathbf{x - 4y = -26}$$

10) slope = $\frac{6}{7}$ and $(1, 5)$

$$\mathbf{6x - 7y = -29}$$