



Equation of a Line

Name _____

Score _____

PS:11

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

1) slope = $\frac{1}{4}$ and (6, 0)

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

3) slope = 8 and (2, -3)

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

5) slope = 1 and (0, -2)

6) slope = $-\frac{1}{3}$ and (7, 9)

7) slope = 10 and (3, -6)

8) slope = 6 and (1, 2)

9) slope = -4 and (-5, 7)

10) slope = $\frac{1}{5}$ and (4, 0)



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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 = $\frac{1}{4}$ and (6, 0)

$$x + 4y = 6$$

3) slope = 8 and (2, -3)

$$8x - y = 19$$

5) slope = 1 and (0, -2)

$$x - y = 2$$

7) slope = 10 and (3, -6)

$$10x - y = 36$$

9) slope = -4 and (-5, 7)

$$4x + y = -13$$

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

$$4x + 7y = -11$$

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

$$3x + y = -7$$

6) slope = $-\frac{1}{3}$ and (7, 9)

$$x + 3y = 34$$

8) slope = 6 and (1, 2)

$$6x - y = 4$$

10) slope = $\frac{1}{5}$ and (4, 0)

$$x - 5y = 4$$