

Name: .....

## Writing Linear Equations Worksheet

Write the slope-intercept form of the given equations

1  $x - 2y = 6$

2  $4x - 2y = 1$

3  $6x + 5y = -15$

4  $11x - 8y = -48$

5  $9x - 6y = -2$

6  $14x - 10y = -10$

Write the standard form of the equation of the line through the given points and slope

1 Point (1, 2), Slope = 6

2 Point (3, -1), Slope = -2

3 Point (-2, 5), Slope = -4

4 Point (3, 4), Slope =  $\frac{5}{3}$

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### Answers

$$\boxed{1} \quad x - 2y = 6$$

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

$$\boxed{3} \quad 6x + 5y = -15$$

$$y = -\frac{6}{5}x - 3$$

$$\boxed{5} \quad 9x - 6y = -2$$

$$y = \frac{3}{2}x + \frac{1}{3}$$

$$\boxed{2} \quad 4x - 2y = 1$$

$$y = 2x - \frac{1}{2}$$

$$\boxed{4} \quad 11x - 8y = -48$$

$$y = \frac{11}{8}x + 6$$

$$\boxed{6} \quad 14x - 10y = -10$$

$$y = \frac{7}{5}x + 1$$

$$\boxed{1} \quad \text{Point } (1, 2), \text{ Slope} = 6$$

$$6x - y - 4 = 0$$

$$\boxed{2} \quad \text{Point } (3, -1), \text{ Slope} = -2$$

$$2x + y - 5 = 0$$

$$\boxed{3} \quad \text{Point } (-2, 5), \text{ Slope} = -4$$

$$4x + y + 3 = 0$$

$$\boxed{4} \quad \text{Point } (3, 4), \text{ Slope} = \frac{5}{3}$$

$$5x - 3y - 3 = 0$$