

## Equation of Parallel or Perpendicular Lines

 Write an equation of the line that passes through the given point and is parallel to the given line.

1)  $(-2, -4), 4x + 7y = -14$

2)  $(-4, 2), y = -x + 3$

3)  $(-2, 5), 2y = 4x - 6$

4)  $(-10, 0), -y + 3x = 16$

5)  $(5, -1), y = -\frac{3}{5}x - 3$

6)  $(1, 7), -6x + y = -1$

7)  $(2, -3), y = \frac{1}{5}x + 5$

8)  $(1, 4), -6x + 5y = -10$

9)  $(3, -3), y = -\frac{5}{2}x - 1$

10)  $(-4, 3), 2x + 3y = -9$

 Write an equation of the line that passes through the given point and is perpendicular to the given line.

11)  $(-1, -7), 3x + 12y = -6$

12)  $(-3, 5), 5x - 6y = 9$

13)  $(2, 6), y = -3$

14)  $(-2, 3), x = 4$

15)  $(1, -5), y = \frac{1}{8}x + 2$

16)  $(3, 4), y = -2x - 4$

17)  $(-5, 5), y = \frac{5}{9}x - 4$

18)  $(4, -1), y = x + 2$



# Math Worksheets

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Answers

### ***Equation of parallel or perpendicular lines***

$$1) \quad y = -\frac{4}{7}x - \frac{36}{7}$$

$$2) \quad y = -x - 2$$

$$3) \quad y = 2x + 9$$

$$4) \quad y = 3x + 30$$

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

$$6) \quad y = 6x + 1$$

$$7) \quad y = \frac{1}{5}x - \frac{17}{5}$$

$$8) \quad y = \frac{6}{5}x + \frac{14}{5}$$

$$9) \quad y = -\frac{5}{2}x + \frac{9}{2}$$

$$10) \quad y = -\frac{2}{3}x + \frac{1}{3}$$

$$11) \quad y = 4x - 3$$

$$12) \quad y = -\frac{6}{5}x + \frac{7}{5}$$

$$13) \quad x = 2$$

$$14) \quad y = 3$$

$$15) \quad y = -8x + 3$$

$$16) \quad y = \frac{1}{2}x + \frac{5}{2}$$

$$17) \quad y = -\frac{9}{5}x - 4$$

$$18) \quad y = -x + 3$$