

LESSON 19: Parallel and Perpendicular Lines

Homework

Directions: Write an equation in slope-intercept form of the line that passes through the point and is parallel to the graph of each equation.

1. $y = \frac{-3}{4}x + \frac{1}{4}; (4, -2)$

2. $9x + 3y = 8; (-1, -4)$

3. $3x - y = 5; (-1, -2)$

Directions: Write an equation in slope-intercept form of the line that passes through the point and is perpendicular to the graph of each equation.

4. $4x + 7y = 6; (-4, 1)$

5. $2x + 10y = 3; (2, 3)$

6. $4x + 3y = -6; (2, 1)$

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Directions: Determine if the following lines are parallel, perpendicular, or neither.

7. $2x - y = -3$
 $2x - y = 5$

8. $x + y = 2$
 $x - y = -2$

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

10. $y = 5$
 $x = 5$