

## Parallel and Perpendicular Lines Exit Quiz

**Part A Instructions:** Choose the option that completes the sentence or answers the question.

1. Which of these is not a way of writing linear equations?

- a.  $y = mx + b$
- b.  $y - y_1 = m(x - x_1)$
- c.  $ax + by = c$
- d. None of these

2. The two lines are parallel if their slopes are:

- a. Reciprocals of each other
- b. equal
- c. negative reciprocals of each other
- d. None of these

3. The two lines are perpendicular if their slopes are:

- a. Reciprocals of each other
- b. equal
- c. negative reciprocals of each other
- d. None of these

4. The slope of the line perpendicular to the line  $y = 3x + 6$  is:

- a.  $-3$
- b.  $\frac{1}{3}$
- c.  $-\frac{1}{3}$
- d.  $3$

**Part B Instructions:** Answer the question below.

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

$$(-2, -14); y = -\frac{1}{7}x - 5$$

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$$(-2, -14); y = -\frac{1}{7}x - 5$$

Slope of the perpendicular line  $m = 7$

$$y - y_1 = m(x - x_1)$$

$$y - (-14) = 7(x - (-2))$$

$$y = 7x$$