

1. Consider the equation $y = \frac{5}{3}x - 1$.
 - a. What is the slope of the graph of this equation?

 - b. What is the slope of the lines parallel to the graph of this equation?

 - c. What is the slope of the lines perpendicular to the graph of this equation?

2. Consider the equation $2x + 8y = 12$.
 - a. What is the slope of the graph of this equation?

 - b. What is the slope of the lines parallel to the graph of this equation?

 - c. What is the slope of the lines perpendicular to the graph of this equation?

3. Consider the equation $6x - 3y = 12$.
 - a. What is the slope of the graph of this equation?

 - b. What is the slope of the lines parallel to the graph of this equation?

 - c. What is the slope of the lines perpendicular to the graph of this equation?

4. Consider the equation $12x + 4y = -16$.
 - a. What is the slope of the graph of this equation?

 - b. What is the slope of the lines parallel to the graph of this equation?

 - c. What is the slope of the lines perpendicular to the graph of this equation?

5. Complete this sentence: "When two lines are parallel, their _____ are _____."

6. Describe the connection between the slopes of two perpendicular lines.