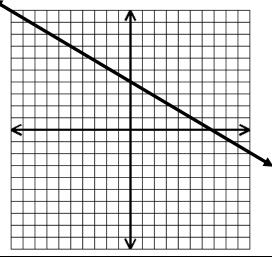
WRITING EQUATIONS OF LINES

| Example 1: Given the linear equation $4x - 6y = 12$, answer the following. |
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| 1. Circle one: The original equation is in slope-intercept form / standard form. |
| 2. Describe graph of this line graps the viewis above or helow the views? |
| 2. Does the graph of this line cross the y-axis above or below the x-axis? |
| 3. What is the constant rate of change? |
| |
| 4. What is the y-intercept? |
| F. As the vivolue increases by the vivolue increases or decreases by |
| 5. As the x-value increases by, the y-value increases or decreases by |
| 6. Does this equation represent a direct variation? Explain. |
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| 7. Write the equation of a line parallel to the given equation and passes through (3, 8). |
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| 8. Write the equation of a line perpendicular to the given equation and passes through (6, -13). |
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Write the equation of each line described, in slope-intercept form.

2.



Equation:

3. Slope of $-\frac{1}{2}$ and passes through (-4, 1)

Equation: _____

4. Vertical line through (-2, 8)

Equation: _____

5. y-intercept of -2 and x-intercept of 6

Equation:

- 6. The distance required to stop a car varies directly to its speed. In one experiment, a car traveling 60 miles per hour required 250 feet to stop.
 - a) Write an equation that can be used to find y, the distance required to stop the car when it is traveling x miles per hour.
 - b) How many feet are required to stop the car when it is traveling 25 mph?