

WRITING EQUATIONS OF LINES

1. Given the linear equation: $4x - 6y = 12$

Is the original equation in slope-intercept form or standard form?

Does the graph of this line cross the y-axis above or below the x-axis?

What is the constant rate of change? _____

What is the y-intercept? _____

As the x-value increases by _____, the y-value increases or decreases by _____.

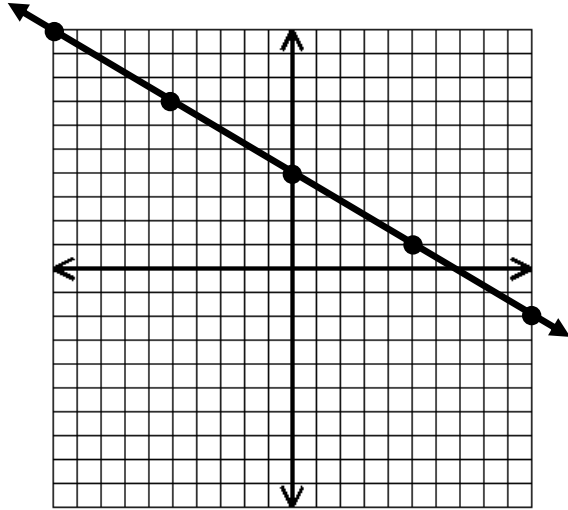
Does this equation represent a direct variation? Explain.

Write the equation of a line parallel to the given equation and passes through (3, 8).

Write the equation of a line perpendicular to the given equation and passes through (6, -13).

Write the equation of each line described, in slope-intercept form.

2.



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

4. Vertical and horizontal lines through $(-2, 8)$

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

6. The distance required to stop a car varies directly to its speed. If 250 feet are required to stop a car traveling 60 miles per hour, how many feet are required to stop a car traveling 25 miles per hour in a school zone?