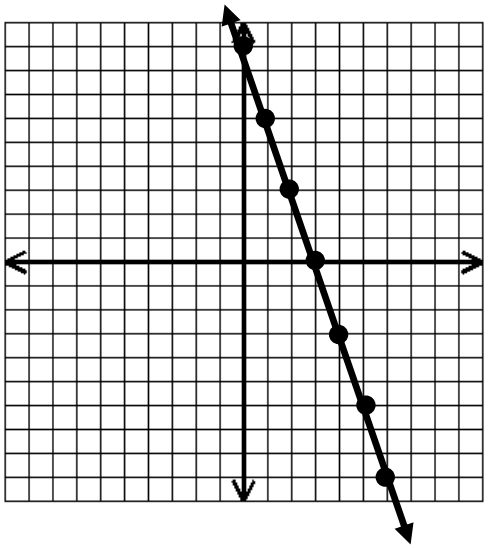
NAME_____**DATE**_____**PER.**_____

WRITING EQUATIONS OF LINES

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

1. _____	Passes through (3, -5) and (6, 1)
2. _____	Slope of 0 and passes through (7, 4)
3. _____	Undefined slope and passes through (-4, -7)
4. _____	Slope of $-\frac{5}{2}$ and pass through (-4, -11)
5. _____	Slope of $\frac{2}{3}$ and x-intercept of -3
6. _____	y-intercept of -4 and x-intercept of 7
7. _____	Passes through the point (7, 12) and y varies directly with x

8.



What is the equation of the line shown in slope-intercept form? _____

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 represent a direct variation? Explain.

Write the equation of a line parallel to the given graph and passes through (-1, 1).

Write the equation of a line perpendicular to the given graph and passes through (6, 9).

Answers in random order: $y = 2x - 11$, $x = -2$, $y = -3x + 9$, $y = \frac{2}{3}x + 2$, $x = -4$, $y = -\frac{5}{2}x - 21$, -3

$y = \frac{1}{3}x + 7$, $y = 4$, $y = -3x - 2$, $y = \frac{4}{7}x - 4$, (0, 9), 3, 1, $y = \frac{12}{7}x$