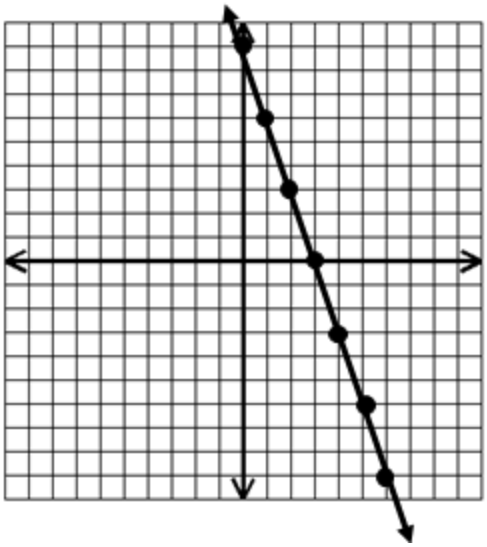
NAME_____**DATE**_____**PER.**_____

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. **Given the graph below, answer the following questions.**



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).

Write the equation of a line with a slope of 6 that has the same y-intercept as the line graphed above.

Write the equation of a line with the same slope as the linear parent function that as the same x-intercept as the line graphed above.