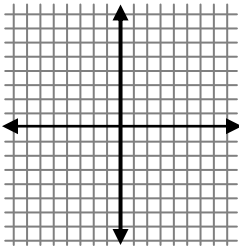


Algebra 1 Linear Equations Review (Chapter 5)

Using the equation $3x - 2y = 12$, answer questions 1-8:

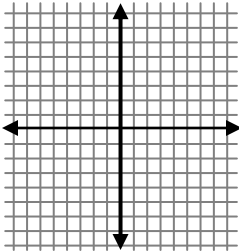
- 1) What form is that equation in? _____ 2) Find the slope. _____
- 3) Graph. Show the necessary information to graph.



Information needed:

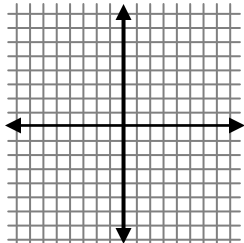
- 4) Now write the equation in slope-intercept form. _____

- 5) From question #4, graph the line and show the necessary information to graph from the slope-intercept form.

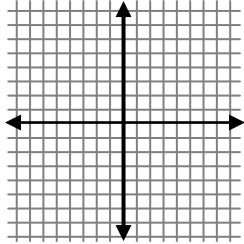


Information needed:

- 6) What is the equation of a line that is parallel to the original equation ($3x - 2y = 12$) and passes through the point $(-6, -1)$? Write that equation in point-slope form, then in slope-intercept form. **Graph that new line.**



- 7) What is the equation of the line that is perpendicular to the original line ($3x - 2y = 12$) and passes through the point $(-6, -1)$? Write that equation in point-slope form, then in slope-intercept form. **Graph that new line.**



- 8) A line passes through the point $(3, -2)$ and $(-6, 4)$. Find the equation of that line in slope-intercept form. **Graph the new line.** Is the line parallel or perpendicular to the original line from the beginning? Why?

