General Algebra II Worksheet #2 Unit 2 Selected Solutions

For each of the following linear equations in two variables: (a) find the x and y intercepts, (b) write the equation in slope-intercept form, and (c) graph the equation.

1. 3x - 2y = 10

(a) x intercept: <u>10/3</u> y intercept: <u>-5</u>

The x-intercept is the value of x when y = 0. The y-intercept is the value of y when x = 0. Just let y = 0, and solve for x. Just let x = 0, and solve for y.

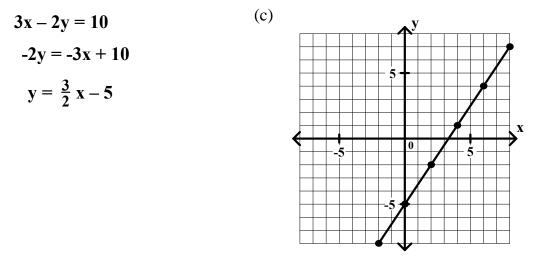
> 3(0) - 2y = 10-2y = 10y = -5

$$3x - 2(0) = 10$$

 $3x = 10$
 $x = 10/3$

(b) slope intercept equation: $y = \frac{3}{2}x - 5$

To find the slope-intercept equation, just solve for y.



Graph each of the following equations in the Cartesian coordinate plane.

