## General Algebra II Worksheet #1 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. 5x + 2y = 10

(a) x intercept: 2 y intercept: 5

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

> 10 5

$$5x + 2(0) = 10$$
  

$$5x = 10$$
  

$$x = 2$$
  

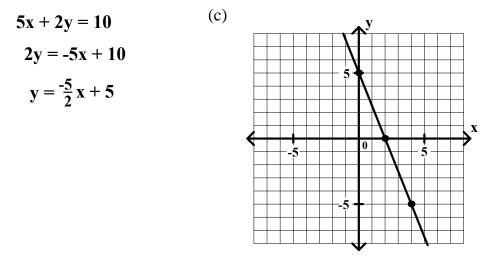
$$5(0) + 2y = 10$$
  

$$2y = 10$$
  

$$y = 5$$

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

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



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

