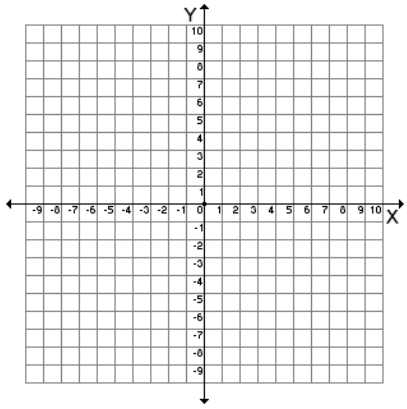
8.2 Linear Equations



Finding Intercepts of a Graph

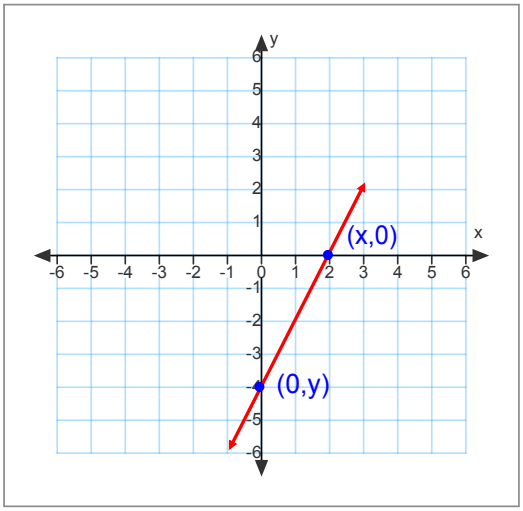
Where the graph crosses the axes.

***This can be done without graphing the line. (Algebraically)

To find the intercepts algebraically:

x-intercept

y-intercept



Example:
Find the intercepts of the equation.

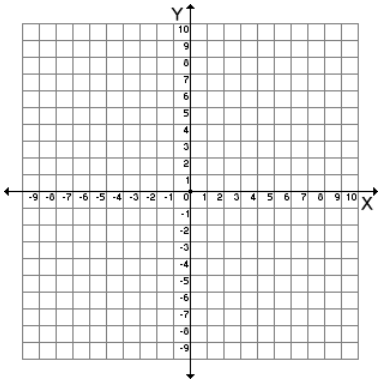
1. $2x - 5y = 15$

2. $-2x + \frac{2}{3}y = 22$

Rewrite each equation in the slope-intercept form, then graph each line on the same graph. What can be said about the slopes and graphs?

3. $\frac{2}{3}x + y = -2$

4. $2x + 3y = 15$



Find three solutions of the equation.

5. $-2x + 3y = 12$