Date: _____

Solving Systems of Equations by Graphing

Linear System:

Two or more lines considered at the same time.

Solution to a Linear System:

The point of intersection (POI) of the lines.

Example 1 Which of the given points is a solution to the system of equations? a. (-5,6) or (5,-4) x + y = 1 2x - 5y = 30The coordinates, (x, y), of the POI must satisfy both equations. Substitute the (x, y) values into the equations. You are checking, so separate LS from RS!

b. (5,2) or (4,0)x + y = 7y = 2x - 8

Example 2

Solve each of the following systems by graphing. Check your solution.



c. 5x - 2y = 10

x + 2y = 2



y = 3x - 2

Homework:

Solve the following systems of equations by graphing.



