Ch 8.1 Solving Systems of Equations Graphically

The solution to a system of equation is an ordered pair (x, y) that satisfies all the equations.

For example: The point (4, 2) is a solution to the system of:

$$x + y = 6$$

$$2x - 3y = 2$$

Graphical Representation:

System of Linear-Quadratic Equations

System of Line Quadratic-Quadratic Equations

Example 1: Solve the equations graphically and verify the solution

$$x - y + 1 = 0$$

$$x^2 - 6x + y = -3$$

$$2x^2 + 16x + y = -26$$

$$x^2 + 8x - y = -19$$

