

***Objectives:**

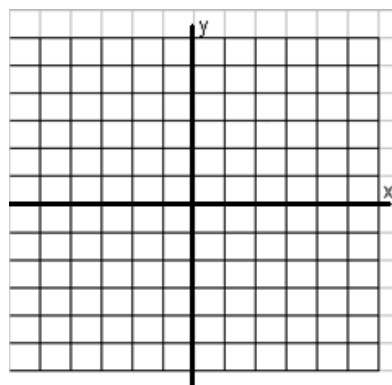
***Solutions of a Linear-Quadratic System**

***Two Solutions**

***One Solution**

***No Solution**

Got It? 1. What is the solution of the system? $\begin{cases} y = x^2 + 6x + 9 \\ y = x + 3 \end{cases}$



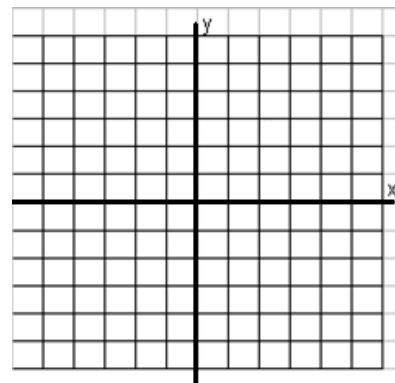
Got It? 2. What is the solution of the system? $\begin{cases} y = -x^2 - 3x + 10 \\ y = x + 5 \end{cases}$

Got It? 3. What is the solution of each system of equations?

a.
$$\begin{cases} y = x^2 - 4x + 5 \\ y = -x^2 + 5 \end{cases}$$

b.
$$\begin{cases} y = x^2 - 4x + 5 \\ y = -x^2 - 5 \end{cases}$$

Got It? 4. a. What is the solution of this system of inequalities?
$$\begin{cases} y \leq -x^2 - 4x + 3 \\ y > x^2 + 3 \end{cases}$$



Inclass: p. 262 #12 (1 point), 18, 22, 28

Homework: p. 262 #9-27(odd), CHANGE #11, 13

Interactmath: #8, 14, 18, 21, 23, 24, 27, 28