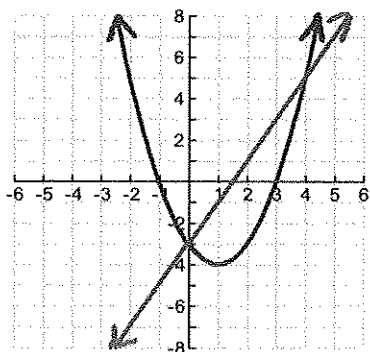


Types of Solutions Produced By a Linear and Quadratic System

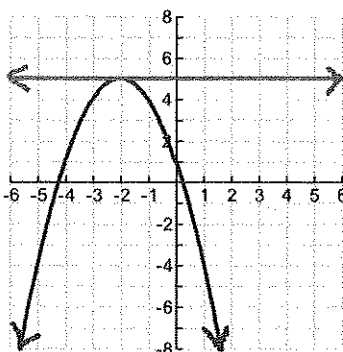
Example 1:
$$\begin{cases} y = x^2 - 2x - 3 \\ y = 2x - 3 \end{cases}$$



Number of Solution(s): _____

What are the solutions?

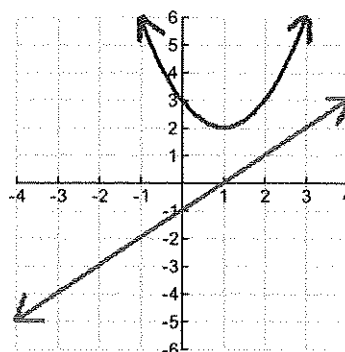
Example 2:
$$\begin{cases} y = -(x+2)^2 + 5 \\ y = 5 \end{cases}$$



Number of Solution(s): _____

What are the solutions?

Example 3:
$$\begin{cases} y = x^2 - 2x + 4 \\ y = x - 1 \end{cases}$$

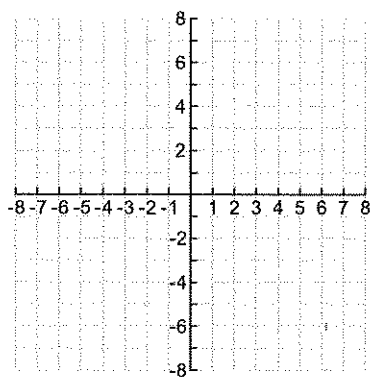


Number of Solution(s): _____

What are the solutions?

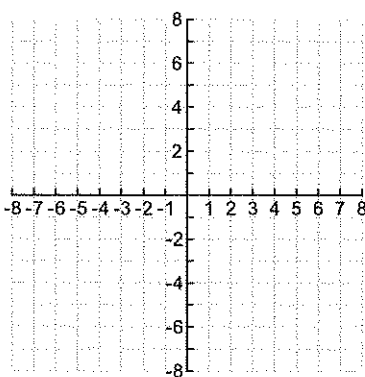
Solving Linear and Quadratic System By Graphing Examples

Example 4a:
$$\begin{cases} y = (x+2)^2 - 6 \\ y = 4x - 2 \end{cases}$$



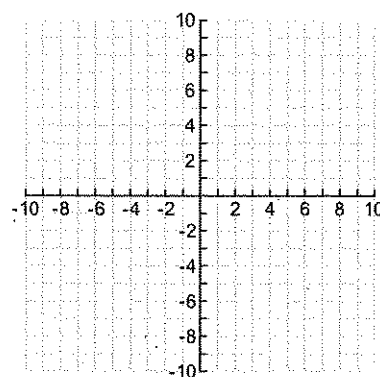
Solution(s): _____

Example 5a:
$$\begin{cases} y = x^2 - 2x - 3 \\ y = -5 \end{cases}$$



Solution(s): _____

Example 6a:
$$\begin{cases} y = -x^2 + 2x + 7 \\ y = -2x + 2 \end{cases}$$



Solution(s): _____

Solving Linear and Quadratic System By Substitution (Rework Examples Above) Examples

Example 4b:
$$\begin{cases} y = (x+2)^2 - 6 \\ y = 4x - 2 \end{cases}$$

Example 5b:
$$\begin{cases} y = x^2 - 2x - 3 \\ y = -5 \end{cases}$$

Example 6b:
$$\begin{cases} y = -x^2 + 2x + 7 \\ y = -2x + 2 \end{cases}$$