

1. Write the equation of the axis of symmetry for each parabola.

a. $y = 4x^2 - 3x + 1$

b. $y = -2x^2 + 7$

c. $y = 3(x - 2)^2 + 5$

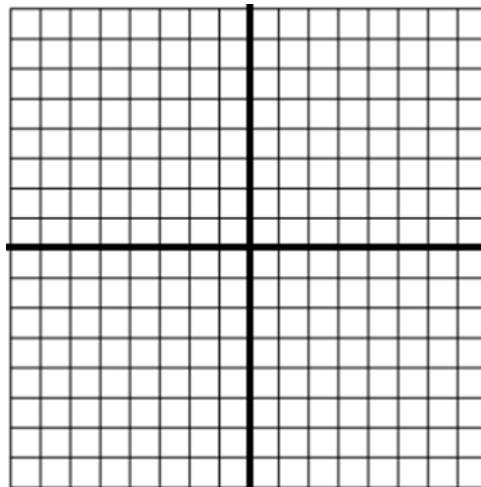
2. Write each parabola in **Vertex Form** by **Completing the Square**.

a. $y = x^2 + 4x + 3$

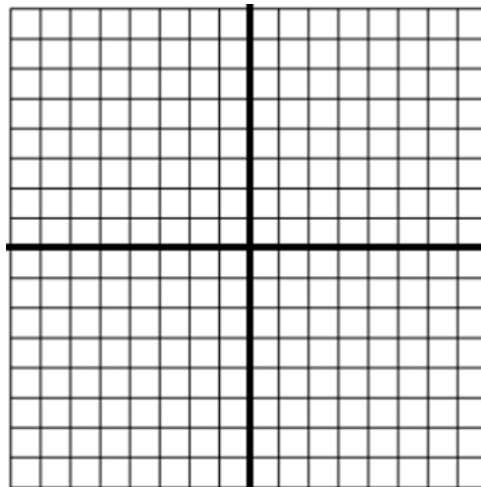
b. $y = x^2 - 12x + 1$

3. Solve each of the following systems of equations graphically.

a. $y = x^2 - 6x + 8$
 $y + x = 4$



b. $y = -x^2 + 4x + 2$
 $(x - 2)^2 + (y - 4)^2 = 9$



c.

$$\begin{cases} y = x^2 + x - 6 \\ y = x^2 - 8x + 12 \end{cases}$$

