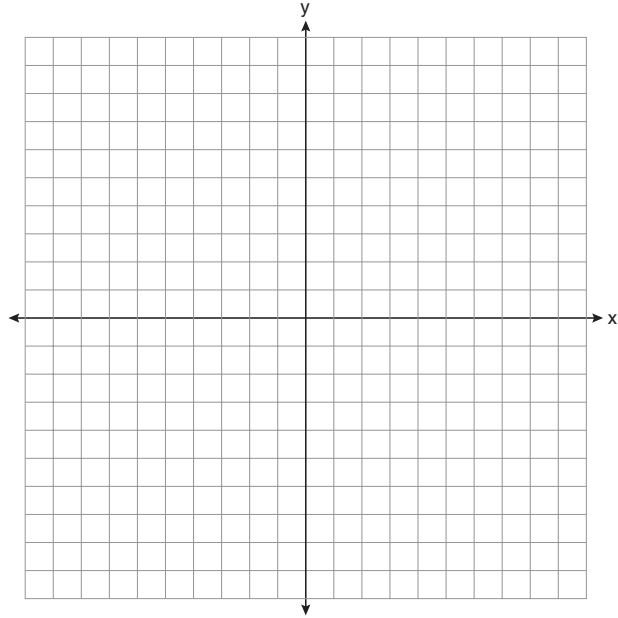


## Solving a Linear-Quadratic System of Equations Graphically

1. Sketch the graph of  $y = x^2 + 4x - 2$  and  $y = 2x + 1$  on the set of axes below.

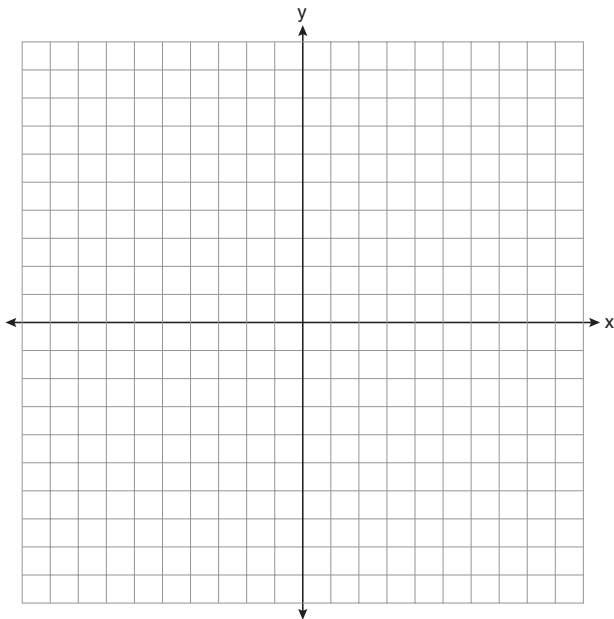


2. Which ordered pair is in the solution set of the system of equations  $y = -x + 1$  and  $y = x^2 + 5x + 6$ ?
- |                |               |
|----------------|---------------|
| (1) $(-5, -1)$ | (3) $(5, -4)$ |
| (2) $(-5, 6)$  | (4) $(5, 2)$  |

3. Which ordered pair is a solution to the system of equations  $y = x$  and  $y = x^2 - 2$ ?
- |                |              |
|----------------|--------------|
| (1) $(-2, -2)$ | (3) $(0, 0)$ |
| (2) $(-1, 1)$  | (4) $(2, 2)$ |

4. Solve the system of equations graphically:

$$\begin{cases} y = x^2 + 4x - 5 \\ y = x - 1 \end{cases}$$



5. Solve the system of equations graphically:

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

