

Graphing $y = ax^2 + bx + c$ (10.2)**Prior Knowledge:** Evaluate.

1) Solve $y = 2x^2 + 4x - 5$ when $x = -1$

2) Solve $y = x^2 - 6x - 7$ when $x = 3$

3) Solve $y = -x^2 - 8x + 5$ when $x = -4$

4) Solve $y = -4x^2 - 16x + 7$ when $x = -2$

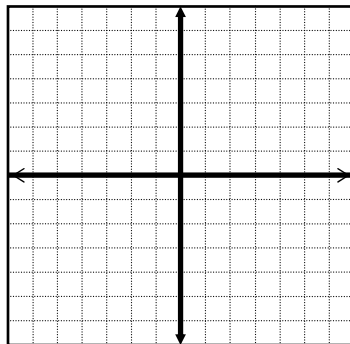
Key Terms: Get to know these terms extremely well!!!

- **x-coordinate of a vertex** –
- **axis of symmetry** –

Graphing Quadratic Functions: Graph the function. Label the vertex and the axis of symmetry.

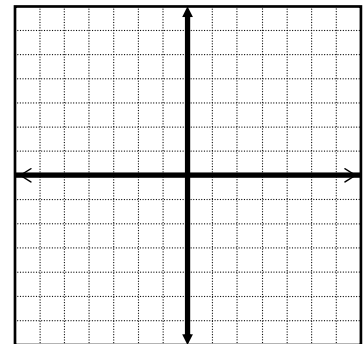
5) $y = x^2 - 4x + 3$

x	y



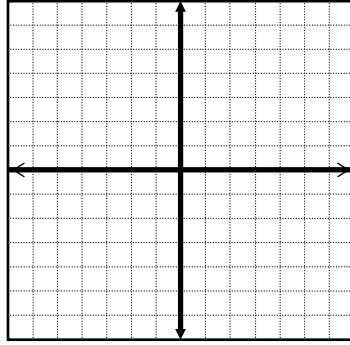
6) $y = -x^2 - 6x - 9$

x	y



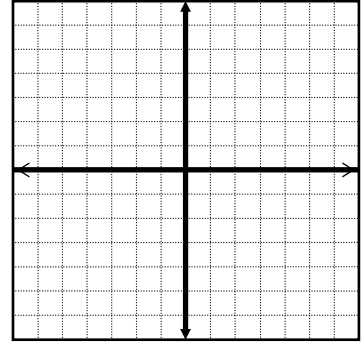
7) $y = 2x^2 - 4x + 3$

x	y



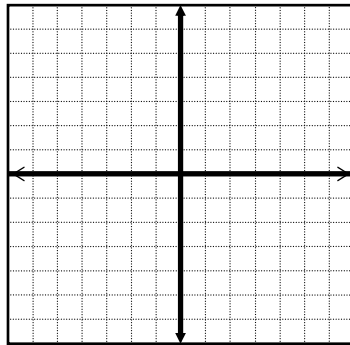
8) $y = -3x^2 + 6x$

x	y



9) $y = -x^2 - 2x - 1$

x	y



10) $y = 3x^2 - 4$

x	y

