

## 1-1 Graphing Quadratic Function

Match each function with the correct coefficients:

$$x^2 - 4 = 0$$

$$x^2 - 4x = 0$$

$$x^2 - 4x + 21 = 0$$

$$x^2 + 7x = 18$$

$$x^2 + 7x + 18 = 0$$

$$a = 1; b = 7; c = -18$$

$$a = 1; b = 7; c = 18$$

$$a = 1; b = 0; c = -4$$

$$a = 1; b = -4; c = 21$$

$$a = 1; b = -4; c = 0$$

Fill in the blank:

Down (-1,1) maximum (0,0) minimum (2,4) Up

- The vertex is at -----.
- The vertex is ----- because the parabola opens -----.

