December 4, 2017

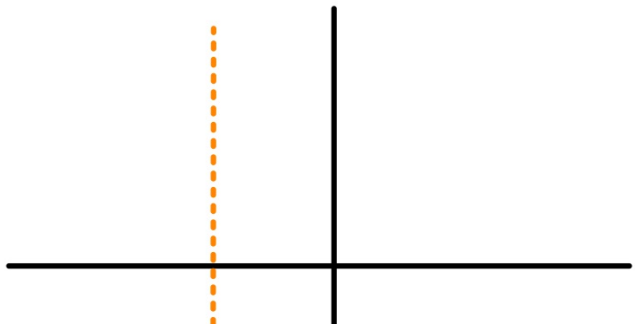
Warm Up

Take a moment to explain to your neighbor what you think a quadratic function is. How many differnt ways can you think to write a quadratic function?

Quadratics

A quadratic function is a 2nd degree (meaning the highest exponent on x is a 2) polynomial. The general form of the quadratic is:

$$y = ax^2 + bx + c$$



Factoring

Do you remember how to factor? Let's try:

$$x^2 + 3x - 18 = 0$$

$$x^2 + 8x + 12 = 0$$

$$8x^2 - 26x - 7 = 0$$

$$3x^2 + 6x - 72 = 0$$

If a doesn't equal 1 and b and c are divisible by a, we're going to pull it out by dividing each piece by a

$$x^2 + 7x = 170$$

$$11x + 6 - 10x^2 = 0$$