

# Monday, February 4, 2019

## • Warm-up

• Graph the following quadratic. Include the

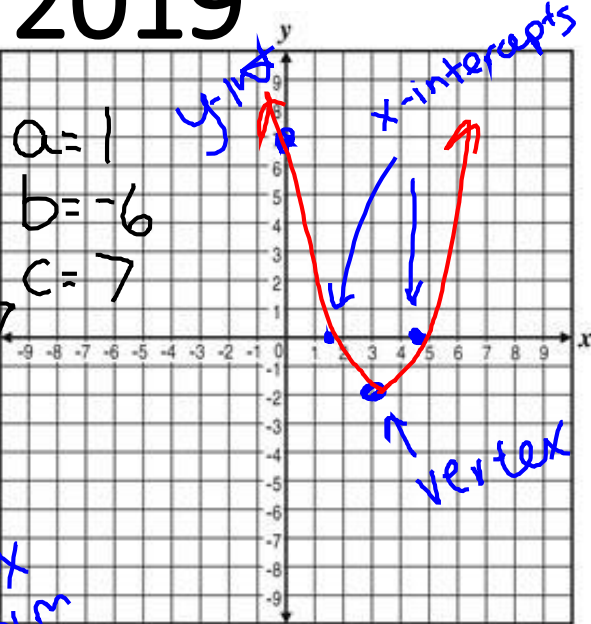
- vertex  $(3, -2)$
- x-intercepts  $(1.59, 0)$   
 $(4.41, 0)$   
*Solutions*
- y-intercept:  $(0, 7)$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$= \frac{-(-6) \pm \sqrt{(-6)^2 - 4(1)(7)}}{2(1)}$$

$$= \frac{6 \pm \sqrt{36 - 28}}{2}$$

$a=1$   
 $b=-6$   
 $c=7$



*vertex form*

$$f(x) = (x - 3)^2 - 2$$

$$(x - h)^2 + k$$

$$(h, k)$$

$= \frac{(6 \pm \sqrt{8})}{2}$

$\rightarrow 4.41$

$x = 1.59$

• direction: up

$(x-3)^2 - 2$

$(x-3)(x-3) - 2$

$x^2 - 3x - 3x + 9 - 2$

$x^2 - 6x + 7$

*Standard form*

## • Review Quadratics

### Objectives

**Content:** I will solve quadratics using various methods.

**Social:** I will participate with my group and use my time wisely.

**Language:** I will ask clear questions if I do not understand.