

Warm Up

5/16/19

Write the equation of the quadratic function from the given roots:

1. $x = \{-3, 1/2\}$

$$x = -3 \quad x = \frac{1}{2}$$

$$x + 3 = 0 \quad 2x - 1 = 0$$

$$(x + 3)(2x - 1)$$

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

2. $x = \{0, 4\}$

$$x = 0 \quad x = 4$$

$$x = 0 \quad x - 4 = 0$$

$$y = (x)(x - 4)$$

$$y = x^2 - 4x$$

3. When given a projectile motion word problem, what are you solving for and how do you solve for it?

x Time to reach the vertex maximum height: A.O.S. $x = \frac{-b}{2a}$

vertex y Maximum height: ① A.O.S. ② plug in A.O.S. to equation

x Time to reach the root ground/surface:

Factor