

Name: \_\_\_\_\_

**Functions 11 – U3 Quiz: Zeros of Quadratic Functions**

K \_\_\_/8 C \_\_\_/1

(Formative)

1. What is a zero of a quadratic function? You can answer with words or with a picture. C \_\_\_/1

2. Determine the zero(s) (if they exist) by converting the function to factored form. K \_\_\_/3

$$f(x) = x^2 - 7x - 30$$

3. Using the quadratic formula determine the zero(s) (if they exist) of the given function. K \_\_\_/3

$$g(x) = 4x^2 - 12x + 9$$

$$\text{Q.F.: } x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

4. How many zeros does  $p(x) = -3x^2 + x + 5$  have? Use the discriminant. K \_\_\_/2