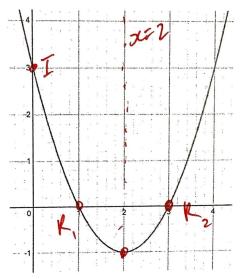
BECA/Segal/Geometry

Name:	Class:
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11.15 Quadratic Equations Quiz

May 18, 2022

1. For the quadratic function below:



Mark and label with coordinates:

- i. The vertex $\sqrt{(2,-1)}$
- ii. The x-intercepts (also called roots) (3, 0)
- iii. Draw the axis of symmetry and write down its equation
- iv. The y-intercept

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11.15 Quadratic Equations Quiz

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2. Here is a quadratic function: $y = x^2 + 4x + 1$

It allows you to calculate the value of y for any value of x.

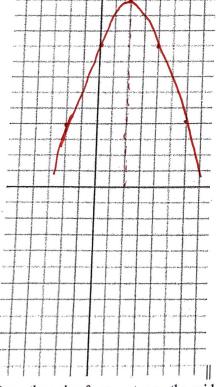
Complete the following table of values:

x	у
0	
-1	-2
-2	-3
-4	.
-6	13

Vi ite down the axis of symmetry.

[Hint: the axis of symmetry is the x-value where the y-values are the same on either side]

3. Here is a table of values for a quadratic function. Plot the points and draw the curve.



X	у
4 -2	4
O	9
2	12 .
4	9
6	4

Draw the axis of symmetry on the grid, and write down its equation below.

26=2

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11.15 Quadratic Equations Ouiz

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4. The standard form of a quadratic equation is:

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

Write down a, b and c for the following equation:

$$y = 5x^2 - 7x - 3$$

iii.
$$c = -3$$

5. For the following quadratic

$$y = 2x^2 - 8x + 5$$

Write down the values for a, b and c.

Using those values for a, b and c, substitute and simplify the following expressions:

ii.
$$\frac{b}{2a}$$
 $\frac{-8}{2.(2)} = \frac{-8}{4} = -2$
iii. $b^2 - 4ac$ $(-8)^2 - (4.2.5)$

iii.
$$b^2 - 4ac$$