Name: _____ Date: _____

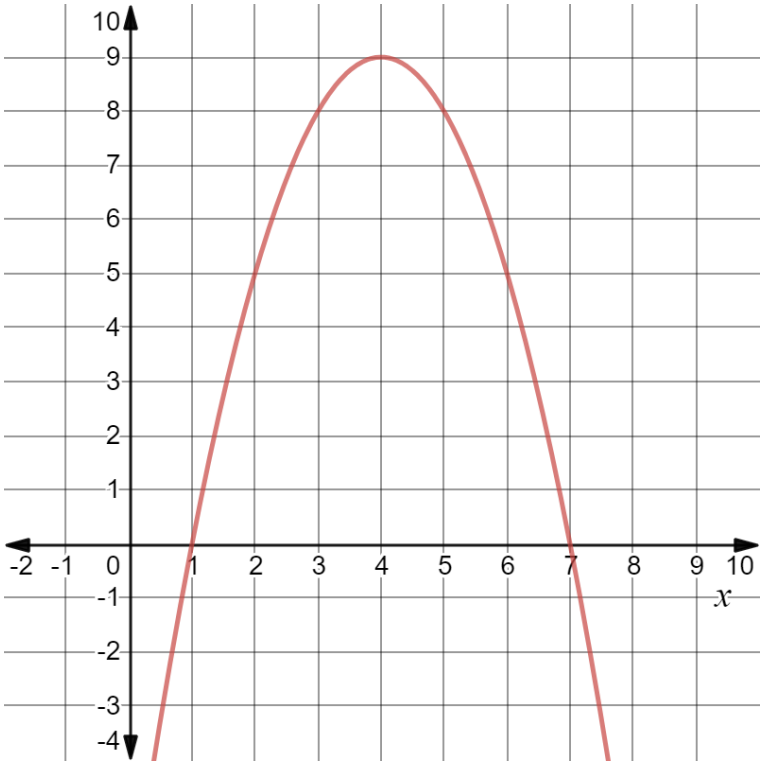
Recall A quadratic function can be written in one of three forms:

1.

2.

3.

Example On the following graph identify the following features:

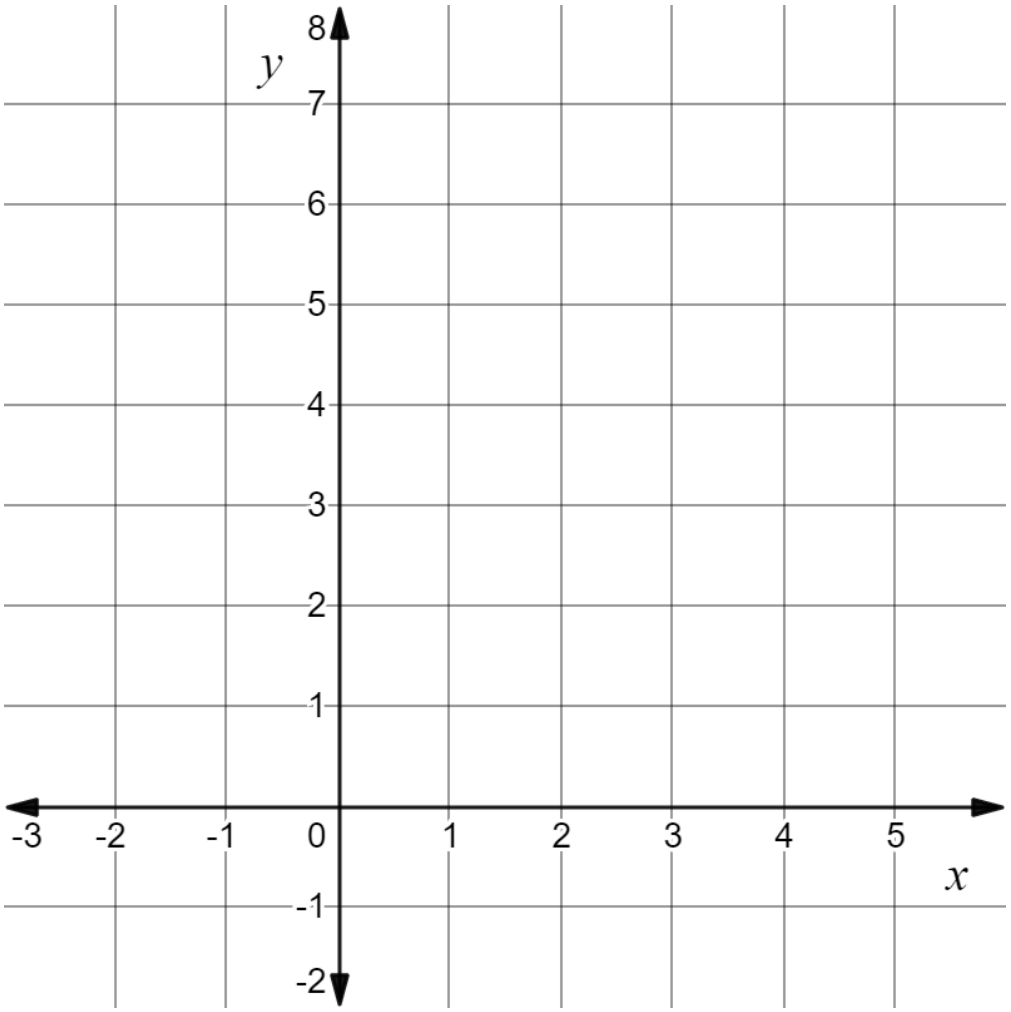


1. y-intercept	2. x-intercept(s)	3. Equation of the axis of symmetry
4. Coordinates of the vertex	5. Maximum or minimum value	6. Domain and range

Assignment p. 368 # 1, 2 – 6, 8 – 10, 12 Quiz Next Day!

Example Consider the quadratic function $y = x^2 - 4x + 4$. Find the y-intercept, then factor to find the x-intercept(s). Graph the function either by using these coordinates, or by completing the table of values.

x	0	1	2	3	4	5	6
y							

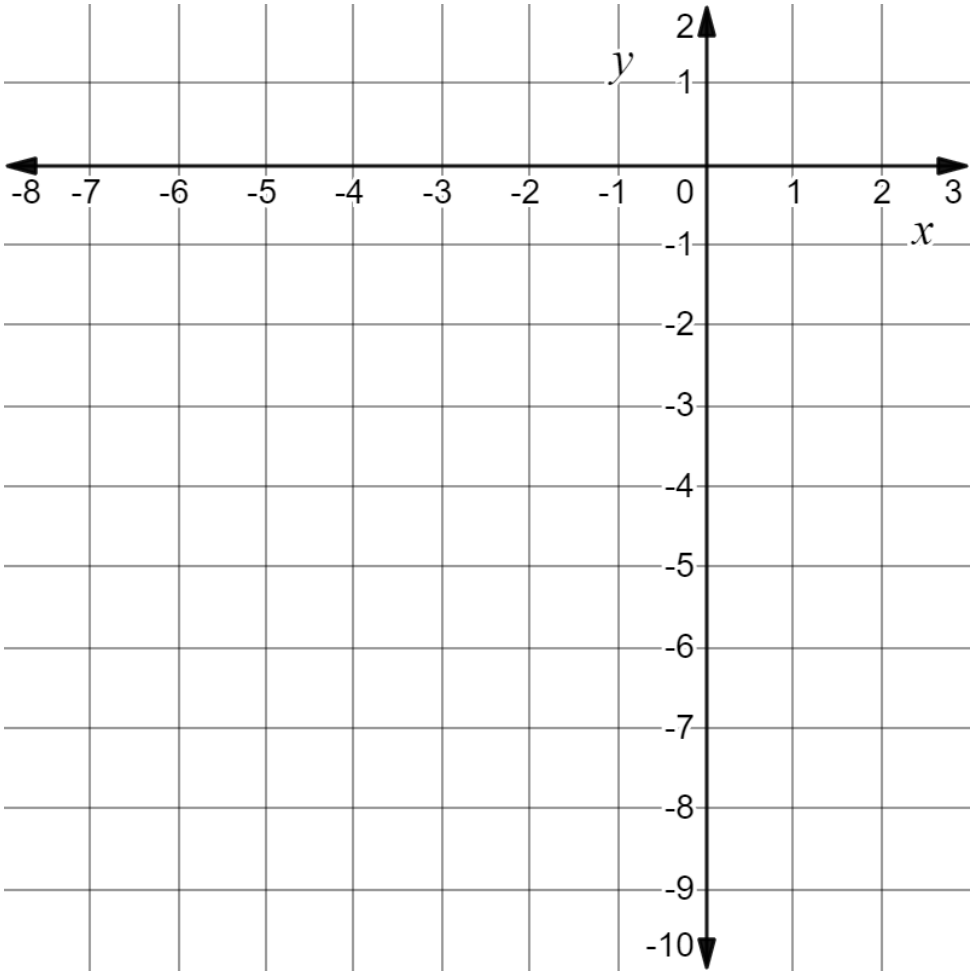


Determine the:

1. y-intercept	2. x-intercepts	3. Equation of the axis of symmetry
4. Coordinates of the vertex	5. Maximum or minimum value	6. Domain and range

Ex. #1 Consider the quadratic function $y = -x^2 + 7x - 10$. Find the y-intercept, then factor to find the x-intercept(s). Graph the function either by using these coordinates, or by completing the table of values.

x	0	1	2	3	4	5	6
y							



Determine the:

1. y-intercept	2. x-intercepts	3. Equation of the axis of symmetry
4. Coordinates of the vertex	5. Maximum or minimum value	6. Domain and range