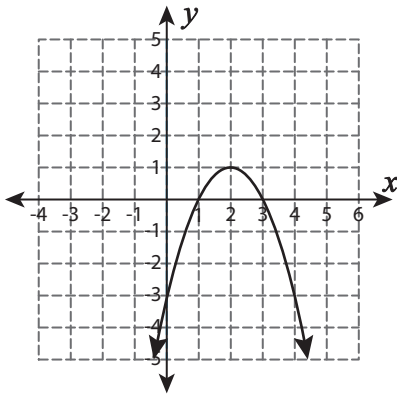


# Properties of Quadratic Function

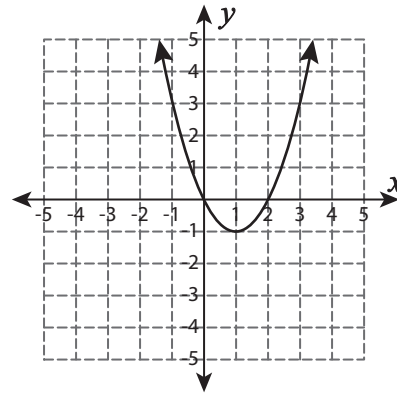
Find the properties of each quadratic function.

1)



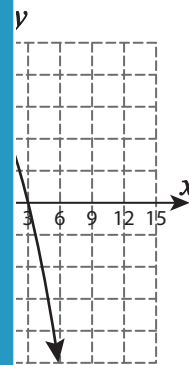
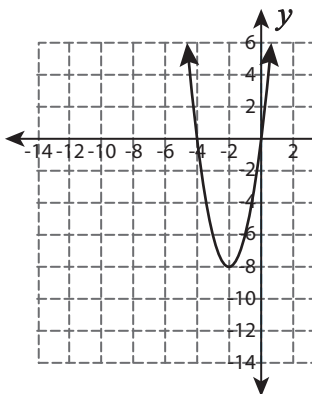
- Domain : \_\_\_\_\_
- Range : \_\_\_\_\_
- $x$ -intercepts : \_\_\_\_\_
- $y$ -intercept : \_\_\_\_\_
- Vertex : \_\_\_\_\_
- Maximum value : \_\_\_\_\_
- Axis of symmetry : \_\_\_\_\_
- Open up or down : \_\_\_\_\_

2)



- Domain : \_\_\_\_\_
- Range : \_\_\_\_\_
- $x$ -intercepts : \_\_\_\_\_
- $y$ -intercept : \_\_\_\_\_
- Vertex : \_\_\_\_\_
- Maximum value : \_\_\_\_\_
- Axis of symmetry : \_\_\_\_\_
- Open up or down : \_\_\_\_\_

3)



- Domain : \_\_\_\_\_
- Range : \_\_\_\_\_
- $x$ -intercepts : \_\_\_\_\_
- $y$ -intercept : \_\_\_\_\_
- Vertex : \_\_\_\_\_
- Minimum value : \_\_\_\_\_
- Axis of symmetry : \_\_\_\_\_
- Open up or down : \_\_\_\_\_

- Domain : \_\_\_\_\_
- Range : \_\_\_\_\_
- $x$ -intercepts : \_\_\_\_\_
- $y$ -intercept : \_\_\_\_\_
- Vertex : \_\_\_\_\_
- Maximum value : \_\_\_\_\_
- Axis of symmetry : \_\_\_\_\_
- Open up or down : \_\_\_\_\_

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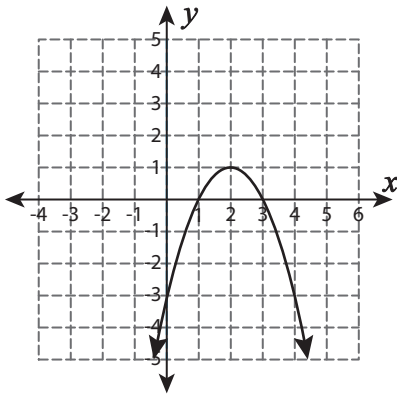
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**Properties of Quadratic Function**

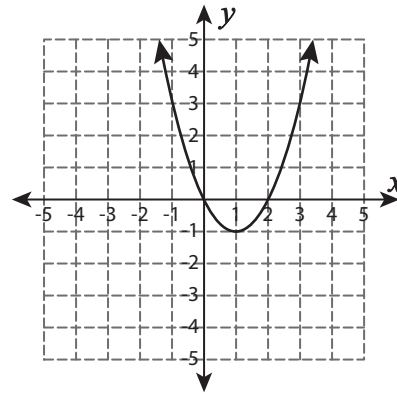
Find the properties of each quadratic function.

1)



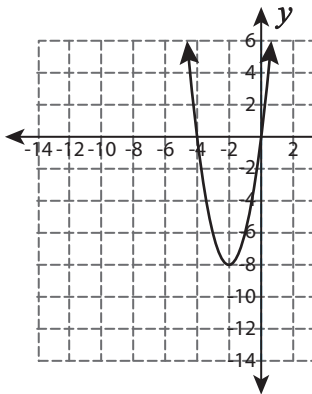
- Domain : Real Numbers
- Range : { y is real : y ≤ 1 }
- x-intercepts : (0, 0) and (4, 0)
- y-intercept : (0, -4)
- Vertex : (2, 1)
- Maximum value : y = 1
- Axis of symmetry : x = 2
- Open up or down : Down

2)

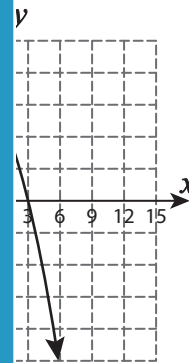


- Domain : Real Numbers
- Range : { y is real : y ≥ -1 }
- x-intercepts : (0, 0) and (2, 0)
- y-intercept : (0, 0)
- Vertex : (1, -1)
- Minimum value : y = -1
- Axis of symmetry : x = 1
- Open up or down : Up

3)



- Domain : Real Numbers
- Range : { y is real : y ≥ -8 }
- x-intercepts : (-4, 0) and (0, 0)
- y-intercept : (0, 6)
- Vertex : (-2, -8)
- Minimum value : y = -8
- Axis of symmetry : x = -2
- Open up or down : Up



- Domain : Real Numbers
- Range : { y is real : y ≤ 8 }
- x-intercepts : (-9, 0) and (3, 0)
- y-intercept : (0, 6)
- Vertex : (-3, 8)
- Maximum value : y = 8
- Axis of symmetry : x = -3
- Open up or down : Down

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