Identifying Key Features

X-Intercept(s): (-0.5, 0) and (2.5, 0)
Y-Intercept: (0, 2)
Vertex: (-0.5, 2)
Point of Extremum (circle one):
Maximum or Minimum, y =
Axis of Symmetry: x =
Root(s): 
Solution(s): 
Zero(s): 

KEY INCLUDED!
Identify key features of quadratic functions

1. X-Intercept(s) ______________________
   Y-Intercept ______________________
   Vertex ______________________
   Point of Extremum (circle one):
   Maximum or Minimum, \( y = \) _______________
   Axis of Symmetry \( x = \) _______________
   Root(s) ______________________
   Solution(s) ______________________
   Zero(s) ______________________

2. X-Intercept(s) ______________________
   Y-Intercept ______________________
   Vertex ______________________
   Point of Extremum (circle one):
   Maximum or Minimum, \( y = \) _______________
   Axis of Symmetry \( x = \) _______________
   Root(s) ______________________
   Solution(s) ______________________
   Zero(s) ______________________

3. X-Intercept(s) ______________________
   Y-Intercept ______________________
   Vertex ______________________
   Point of Extremum (circle one):
   Maximum or Minimum, \( y = \) _______________
   Axis of Symmetry \( x = \) _______________
   Root(s) ______________________
   Solution(s) ______________________
   Zero(s) ______________________
Quadratic Functions – Identifying Key Features of Quadratic Graphs

X-Intercept(s) ____________________________
Y-Intercept ____________________________
Vertex ____________________________
Point of Extremum (circle one):
Maximum or Minimum, \( y = \) ____________________________
Axis of Symmetry \( x = \) ____________________________
Root(s) ____________________________
Solution(s) ____________________________
Zero(s) ____________________________

X-Intercept(s) ____________________________
Y-Intercept ____________________________
Vertex ____________________________
Point of Extremum (circle one):
Maximum or Minimum, \( y = \) ____________________________
Axis of Symmetry \( x = \) ____________________________
Root(s) ____________________________
Solution(s) ____________________________
Zero(s) ____________________________

X-Intercept(s) ____________________________
Y-Intercept ____________________________
Vertex ____________________________
Point of Extremum (circle one):
Maximum or Minimum, \( y = \) ____________________________
Axis of Symmetry \( x = \) ____________________________
Root(s) ____________________________
Solution(s) ____________________________
Zero(s) ____________________________
X-Intercept(s) ________________________
Y-Intercept ________________________
Vertex _____________________________
Point of Extremum (circle one):
Maximum or Minimum, \( y = \) __________
Axis of Symmetry \( x = \) __________
Root(s) _____________________________
Solution(s) _________________________
Zero(s) ____________________________
X-Intercept(s) ____________________
Y-Intercept ____________________
Vertex _________________________
Point of Extremum (circle one):
Maximum or Minimum, \( y = \) ____________
Axis of Symmetry \( x = \) ____________
Root(s) _________________________
Solution(s) ____________________
Zero(s) _________________________
Quadratic Functions – Identifying Key Features of Quadratic Graphs

13
X-Intercept(s) ______________________
Y-Intercept ______________________
Vertex ______________________
Point of Extremum (circle one):
Maximum or Minimum, y =
Axis of Symmetry x =
Root(s) ______________________
Solution(s) ______________________
Zero(s) ______________________

14
X-Intercept(s) ______________________
Y-Intercept ______________________
Vertex ______________________
Point of Extremum (circle one):
Maximum or Minimum, y =
Axis of Symmetry x =
Root(s) ______________________
Solution(s) ______________________
Zero(s) ______________________

15
X-Intercept(s) ______________________
Y-Intercept ______________________
Vertex ______________________
Point of Extremum (circle one):
Maximum or Minimum, y =
Axis of Symmetry x =
Root(s) ______________________
Solution(s) ______________________
Zero(s) ______________________
Quadratic Functions – Identifying Key Features of Quadratic Graphs

X-Intercept(s) __________________________
Y-Intercept __________________________
Vertex __________________________
Point of Extremum (circle one):
Maximum or Minimum, y = ____________
Axis of Symmetry x = ____________
Root(s) __________________________
Solution(s) __________________________
Zero(s) __________________________

X-Intercept(s) __________________________
Y-Intercept __________________________
Vertex __________________________
Point of Extremum (circle one):
Maximum or Minimum, y = ____________
Axis of Symmetry x = ____________
Root(s) __________________________
Solution(s) __________________________
Zero(s) __________________________

X-Intercept(s) __________________________
Y-Intercept __________________________
Vertex __________________________
Point of Extremum (circle one):
Maximum or Minimum, y = ____________
Axis of Symmetry x = ____________
Root(s) __________________________
Solution(s) __________________________
Zero(s) __________________________
Identify key features of quadratic functions (KEY)

1. X-Intercept(s): (-0.5, 0) and (2.5, 0)
   Y-Intercept: (0, 2)
   Vertex: (1, 4)
   Point of Extremum (circle one):
   Maximum \( y = 4 \)
   Axis of Symmetry: \( x = -2 \)
   Root(s): \( x = -0.5, x = 2.5 \)
   Solution(s): \( x = -0.5, x = 2.5 \)
   Zero(s): \( x = -0.5, x = 2.5 \)

2. X-Intercept(s): (-2, 0) and (0, 0)
   Y-Intercept: (0, 0)
   Vertex: (-1, 2)
   Point of Extremum (circle one):
   Maximum \( y = 2 \)
   Axis of Symmetry: \( x = -1 \)
   Root(s): \( x = -2, x = 0 \)
   Solution(s): \( x = -2, x = 0 \)
   Zero(s): \( x = -2, x = 0 \)

3. X-Intercept(s): (-0.5, 0) and (-3.5, 0)
   Y-Intercept: (0, -4)
   Vertex: (-2, 4)
   Point of Extremum (circle one):
   Maximum \( y = 4 \)
   Axis of Symmetry: \( x = -2 \)
   Root(s): \( x = -0.5, x = -3.5 \)
   Solution(s): \( x = -0.5, x = -3.5 \)
   Zero(s): \( x = -0.5, x = -3.5 \)
**Quadratic Functions – Identifying Key Features of Quadratic Graphs**

**4**
- **X-Intercept(s):** (0, 0) and (-2, 0)
- **Y-Intercept:** (0, 0)
- **Vertex:** (-1, -2)
- **Point of Extremum (circle one):** Minimum: y = -2
- **Axis of Symmetry:** x = -1
- **Root(s):** x = 0, x = -2
- **Solution(s):** x = 0, x = -2
- **Zero(s):** x = 0, x = -2

**5**
- **X-Intercept(s):** None (doesn’t touch x-axis)
- **Y-Intercept:** (0, 2)
- **Vertex:** (1, 1)
- **Point of Extremum (circle one):** Minimum: y = 1
- **Axis of Symmetry:** x = 1
- **Root(s):** None (doesn’t touch x-axis)
- **Solution(s):** None (doesn’t touch x-axis)
- **Zero(s):** None (doesn’t touch x-axis)

**6**
- **X-Intercept(s):** (0, 0) and (2, 0)
- **Y-Intercept:** (0, 0)
- **Vertex:** (1, -1)
- **Point of Extremum (circle one):** Minimum: y = -1
- **Axis of Symmetry:** x = 1
- **Root(s):** x = 0, x = 2
- **Solution(s):** x = 0, x = 2
- **Zero(s):** x = 0, x = 2
Quadratic Functions – Identifying Key Features of Quadratic Graphs

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X-Intercept(s): None (doesn’t touch x-axis)
Y-Intercept: (0, -3)
Vertex: (-1, -2)
Point of Extremum (circle one):
Maximum: y = -2
Axis of Symmetry: x = -1
Root(s): None (doesn’t touch x-axis)
Solution(s): None (doesn’t touch x-axis)
Zero(s): None (doesn’t touch x-axis)

X-Intercept(s): (-1, 0) and (-3, 0)
Y-Intercept: (0, -6)
Vertex: (-2, 2)
Point of Extremum (circle one):
Maximum: y = 2
Axis of Symmetry: x = -2
Root(s): x = -1, x = -3
Solution(s): x = -1, x = -3
Zero(s): x = -1, x = -3

X-Intercept(s): (0, 0) and (2, 0)
Y-Intercept: (0, 0)
Vertex: (1, -1)
Point of Extremum (circle one):
Minimum: y = -1
Axis of Symmetry: x = 1
Root(s): x = 0, x = 2
Solution(s): x = 0, x = 2
Zero(s): x = 0, x = 2
Quadratic Functions – Identifying Key Features of Quadratic Graphs

**13**

- **X-Intercept(s):** None (doesn’t touch x-axis)
- **Y-Intercept:** (0, -2)
- **Vertex:** (-1, 2)
- **Point of Extremum (circle one):** Maximum: y = -1
- **Axis of Symmetry:** x = 1
- **Root(s):** No Roots
- **Solution(s):** No Solutions
- **Zero(s):** No Zeros

**14**

- **X-Intercept(s):** (-3, 0) and (-1, 0)
- **Y-Intercept:** (0, 6)
- **Vertex:** (-2, -2)
- **Point of Extremum (circle one):** Minimum: y = -2
- **Axis of Symmetry:** x = -2
- **Root(s):** x = -3, x = -1
- **Solution(s):** x = -3, x = -1
- **Zero(s):** x = -3, x = -1

**15**

- **X-Intercept(s):** (0, 0) and 2, 0)
- **Y-Intercept:** (0, 0)
- **Vertex:** (1, -2)
- **Point of Extremum (circle one):** Minimum: y = -2
- **Axis of Symmetry:** x = 1
- **Root(s):** x = 0, x = 2
- **Solution(s):** x = 0, x = 2
- **Zero(s):** x = -0, x = 2
16. **X-Intercept(s):** (-3, 0) and (1, 0)  
**Y-Intercept:** (0, -3)  
**Vertex:** (-1, -4)  
**Point of Extremum (circle one):**  
\[- \text{Minimum}: y = -4\]  
**Axis of Symmetry:** \(x = -1\)  
**Root(s):** \(x = -3, x = 1\)  
**Solution(s):** \(x = -3, x = 1\)  
**Zero(s):** \(x = -3, x = 1\)

17. **X-Intercept(s):** (-2.5, 0) and (0.5, 0)  
**Y-Intercept:** (0, 2)  
**Vertex:** (-1, 4)  
**Point of Extremum (circle one):**  
\[- \text{Maximum}: y = 4\]  
**Axis of Symmetry:** \(x = -1\)  
**Root(s):** \(x = -2.5, x = 0.5\)  
**Solution(s):** \(x = -2.5, x = 0.5\)  
**Zero(s):** \(x = -2.5, x = 0.5\)

18. **X-Intercept(s):** (-2.5, 0) and (0.5, 0)  
**Y-Intercept:** (0, 1)  
**Vertex:** (-1, 2)  
**Point of Extremum (circle one):**  
\[- \text{Maximum}: y = 2\]  
**Axis of Symmetry:** \(x = -1\)  
**Root(s):** \(x = -2.5, x = 0.5\)  
**Solution(s):** \(x = -2.5, x = 0.5\)  
**Zero(s):** \(x = -2.5, x = 0.5\)
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