

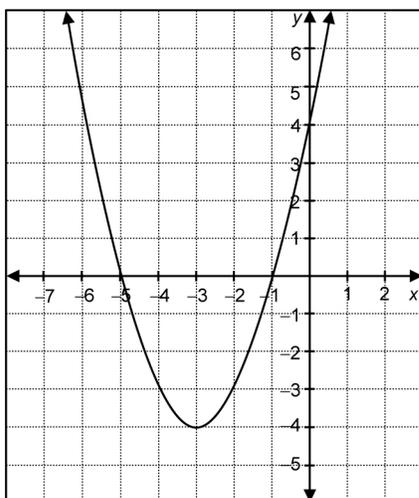
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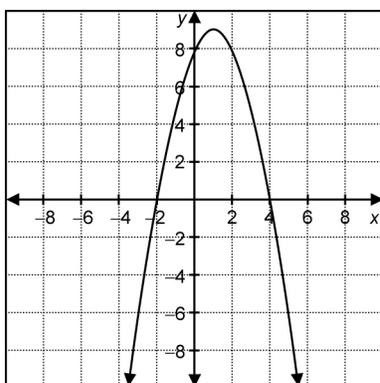
BLM 6.3.1

Practice: Key Features of Quadratic Relations

1. For the graph, identify
 - a) the coordinates of the vertex
 - b) the equation of the axis of symmetry
 - c) the y -intercept
 - d) the maximum or minimum value
 - e) the x -intercepts



2. For the graph, identify
 - a) the coordinates of the vertex
 - b) the equation of the axis of symmetry
 - c) the y -intercept
 - d) the maximum or minimum value
 - e) the x -intercepts



3. The shape of the small wooden bridge over Lake Walker can be modelled by the quadratic relation $y = 25 - x^2$.
 - a) Complete the table of values.

x	y
-3	
-2	
-1	
0	
1	
2	
3	

- b) Graph the data and join the points with a smooth curve.
 - c) Identify the x - and y -intercepts, the coordinates of the vertex, and the equation of symmetry.
4. The shape of a large bell at a local church can be modelled by the quadratic relation $y = 36 - x^2$.

- a) Complete the table of values.

x	y
-3	
-2	
-1	
0	
1	
2	
3	

- b) Graph the data and join the points with a smooth curve.
 - c) Identify the x - and y -intercepts, the coordinates of the vertex, and the equation of symmetry.