

# 2.2

# Characteristics of Quadratic Functions



Learning Standards:  
HSF-IF.B.4  
HSF-IF.C.7c  
HSF-IF.C.9  
HSA-APR.B.3

**Essential Question** What type of symmetry does the graph of  $f(x) = a(x - h)^2 + k$  have and how can you describe this symmetry?

### EXPLORATION 1 Parabolas and Symmetry

Work with a partner.

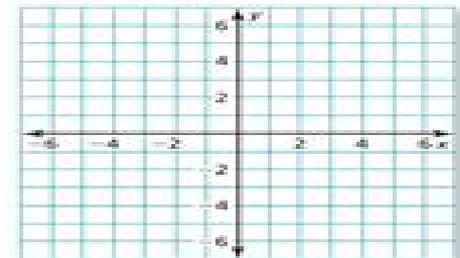
- a. Complete the table. Then use the values in the table to sketch the graph of the function

$$f(x) = \frac{1}{2}x^2 - 2x - 2$$

on graph paper.

$x$	-2	-1	0	1	2
$f(x)$					

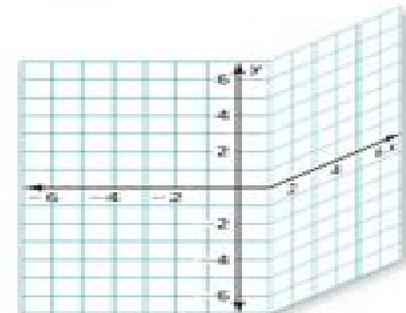
$x$	3	4	5	6
$f(x)$				



- b. Use the results in part (a) to identify the vertex of the parabola.
- c. Find a vertical line on your graph paper so that when you fold the paper, the left portion of the graph coincides with the right portion of the graph. What is the equation of this line? How does it relate to the vertex?
- d. Show that the vertex form

$$f(x) = \frac{1}{2}(x - 2)^2 - 4$$

is equivalent to the function given in part (a).



### EXPLORATION 2 Parabolas and Symmetry

Work with a partner. Repeat Exploration 1 for the function given by

$$f(x) = -\frac{1}{3}x^2 + 2x + 3 = -\frac{1}{3}(x - 3)^2 + 6.$$

### Communicate Your Answer

3. What type of symmetry does the graph of the parabola  $f(x) = a(x - h)^2 + k$  have and how can you describe this symmetry?
4. Describe the symmetry of each graph. Then use a graphing calculator to verify your answer.

a.  $f(x) = -(x - 1)^2 + 4$

b.  $f(x) = (x + 1)^2 - 2$

c.  $f(x) = 2(x - 3)^2 + 1$

d.  $f(x) = \frac{1}{2}(x + 2)^2$

e.  $f(x) = -2x^2 + 3$

f.  $f(x) = 3(x - 5)^2 + 2$

### ATTENDING TO PRECISION

To be proficient in math, you need to use clear definitions in your reasoning and discussions with others.

# Characteristics Of Quadratic Functions Answer Key

**SJ Ball**



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