## **10** CHAPTER REVIEW

## **REVIEW KEY VOCABULARY**

- quadratic function, p. 628
- standard form of a quadratic function, *p. 628*
- parabola, p. 628
- parent quadratic function, p. 628

VOCABULARY EXERCISES

- vertex of a parabola, p. 628
- axis of symmetry, p. 628
- maximum value, p. 636

• minimum value, p. 636

- intercept form of a quadratic function, *p.* 641
- quadratic equation, p. 643
- standard form of a quadratic equation, *p. 643*
- completing the square, p. 663

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Multi-Language Glossary
Vocabulary practice

- vertex form of a quadratic function, *p. 669*
- quadratic formula, p. 671

7.  $y = 2x^2 - 1$ 

- discriminant, p. 678
- 1. Copy and complete: The line that passes through the vertex and divides a parabola into two symmetric parts is called the \_?\_\_\_.

## Tell whether the function has a *minimum value* or a *maximum value*.

**2.** 
$$f(x) = 5x^2 - 4x$$
   
**3.**  $f(x) = -x^2 + 6x + 2$   
**4.**  $f(x) = 0.3x^2 - 7.7x + 1.8$ 

## **REVIEW EXAMPLES AND EXERCISES**

Use the review examples and exercises below to check your understanding of the concepts you have learned in each lesson of Chapter 10.



**6.**  $y = \frac{1}{3}x^2$ 

on pp. 628–630 Graph the function. Compare the graph with the graph of  $y = x^2$ .

for Exs. 5–7 5.  $y = -4x^2$