## Quadratic Equations and Functions


10.1 Graph $y=a x^{2}+c$.
10.2 Graph $y=a x^{2}+b x+c$
10.3 Solve Quadratic Equations by Graphing
10.4 Use Square Roots to Solve Quadratic Equations
10.5 Solve Quadratic Equations by Completing the Syuare
10.6 Solice Quadratic Equations by the Quadratic Formula
10.7 Interpret the Discriminant

108 Compare Linear Exponential, and QuadraticModels

## Before

In previous chapters, you learned the following skills, which you'll use in Chapter 10: reflecting points in a line and finding square roots.

## Prerequisite Skills

## VOCABULARY CHECK

Copy and complete the statement.

1. The $x$-coordinate of a point where a graph crosses the $x$-axis is $\mathrm{a}(\mathrm{n})$ ?.
2. $\mathrm{A}(\mathrm{n})$ ? is a function of the form $y=a \cdot b^{x}$ where $a \neq 0, b>0$, and $b \neq 1$.

## SKILLS CHECK

Draw the blue figure. Then draw its image after a reflection in the red line.
(Review p. 922 for 10.1-10.3.)
3.

4.

5.


Evaluate the expression. (Review p. 110 for 10.4-10.6.)
6. $\sqrt{81}$
7. $-\sqrt{25}$
8. $\sqrt{1}$
9. $\pm \sqrt{64}$


