Exponential and Logarithmic Functions

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7.1 Graph Exponential Growth Functions

- 7.2 Graph Exponential Decay Functions
- 7.3 Use Functions Involving e
- 7.4 Evaluate Logarithms and Graph Logarithmic Functions
- 7.5 Apply Properties of Logarithms
- 7.6 Solve Exponential and Logarithmic Equations
- 7.7 Write and Apply Exponential and Power Functions

Before

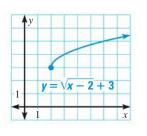
In previous chapters, you learned the following skills, which you'll use in Chapter 7: graphing functions, finding inverse functions, and writing functions.

Prerequisite Skills

VOCABULARY CHECK

Copy and complete the statement using the graph at the right.

- **1.** The **domain** of the function is <u>?</u>.
- **2.** The **range** of the function is <u>?</u>.
- **3.** The **inverse** of the function is _?___.



SKILLS CHECK

Graph the function. State the domain and range. (Review p. 446 for 7.1-7.3.)

5. $v = \sqrt{x+3}$

4.
$$y = -2\sqrt{x} - 1$$

6.
$$y = \sqrt[3]{x-2} + 5$$

Find the inverse of the function. (Review p. 438 for 7.4.)

7. y = 3x + 5

9.
$$y = \frac{1}{2}x^2, x \ge 0$$

Write a quadratic function in standard form for the parabola that passes through the given points. (*Review p. 309 for 7.7.*)

8. $y = -2x^3 + 1$

10. (0, -1), (1, 2), (3, 14) **11.** (3, 8), (4, 17), (7, 56) **12.** (-3, 9), (1, -7), (5, -55)

TEXAS @HomeTutor Prerequisite skills practice at classzone.com