**Chapter 10 Practice Test** SCORE \_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Write the letter for the correct answer in the blank at the right of each question.***

**1.** How does the graph of *y* = + 2 compare to the parent graph?

**2.** Which expression has a domain of {*x* | *x* ≥ –1}?

**F** *y* = **G** *y* = **H** *y* = + 1 **J** *y* = – 1

**For Questions 3–7, simplify each expression.**

**3.**

**4.**

**5.** 6 – 2

**6.** 3 + – 2

**7.**  ( + 3 )

**8.** Solve = 3.

**9.** Solve = *x*.

**10.** Find the length of the hypotenuse of a right triangle if *a* = 3 and *b* = 4.

**11.** Determine which side measures form a Pythagorean triple.

**A** 4, 5, 6 **B** 3, 4, 5 **C** 5, 11, 12 **D** 4, 8, 12

**1.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**9.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

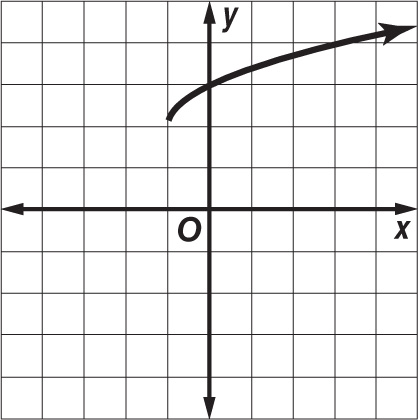
**10.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**11.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Chapter 10 Practice Test** *(continued)*

**12.** Determine which set of measures can be the lengths of the sides of a right triangle.

**A** 2, 3, 5 **B** 4, 6, 7 **C** 10, 12, 13 **D** 1, , 2

**13.** What is the equation of the graph?

**F** *y* = + 1 **H** *y* = + 2

**G** *y* = + 1 **J** *y* = + 2

**14.** Simplify 2 ⋅ 5 ⋅ 3 .

**15.** What is the length of a diagonal of a rectangle with a length of 8 meters and a width   
of 6 meters?

**16.** Determine which side measures form a right triangle.

**A** 10, 24, 28 **B** 13, 17, 21 **C** , , **D** 5, 12, 13

**17 . SAILING** A 12-foot cable attached to the top of the mast of a sailboat is fastened to a point on the deck 4 feet from the base of the mast. What is the height of the mast?

**Bonus:** Find out when you take the test ☺

**12.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**13.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**14.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**15.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**16.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**17.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_