CHAPTER 12

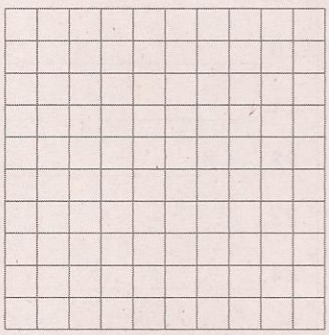
NAME _____ DATE _____

Chapter Test A

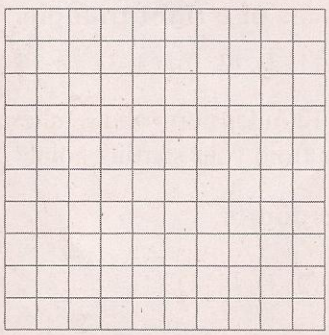
For use after Chapter 12

Identify the domain and range of the function. Then sketch its graph.

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



2. $y = \sqrt{x} + 2$



Simplify the expression.

3. $3\sqrt{5} + 4\sqrt{5}$

4. $6\sqrt{3} - 2\sqrt{3}$

5. $\sqrt{5} \cdot \sqrt{20}$

6. $\dfrac{3}{\sqrt{2}}$

7. $\sqrt{5}(6\sqrt{2} - \sqrt{5})$

8. $\dfrac{4}{\sqrt{20}}$

Solve the equation.

9. $\sqrt{x} - 2 = 0$

10. $\sqrt{3x} - 6 = 0$

Two numbers and their geometric mean are given. Find the value of *a*.

11. 4 and a; 12

12. 3 and a; 9

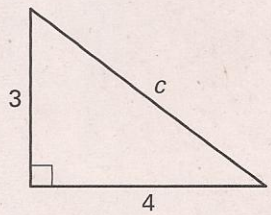
Solve the equation by completing the square.

13. $x^2 + 2x = 3$

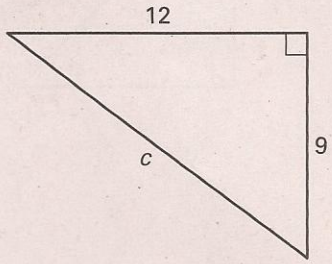
14. $x^2 + 8x = 14$

Find each missing length.

15.



16.



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Review and Assess