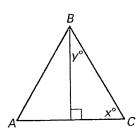
Practice A

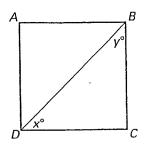
For use with pages 551-557

Find the value of each variable in the polygon.

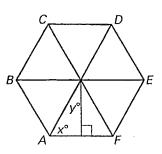
1. Equilateral $\triangle ABC$



2. Square ABCD

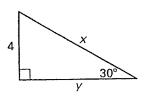


3. Regular hexagon ABCDEF

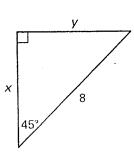


Find the value of each variable. Write answers in simplest radical form.

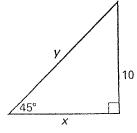
4



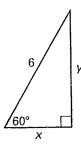
5.



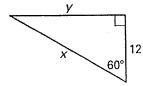
6:



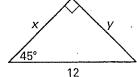
7.



8.



9.



Sketch the figure that is described. Find the requested length. Round decimals to the nearest tenth.

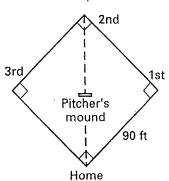
- 10. The side length of an equilateral triangle is 20 centimeters. Find the length of an altitude of the triangle.
- 11. The perimeter of a square is 20 centimeters. Find the length of a diagonal.
- 12. The diagonal of a square is 10 inches. Find the length of a side.

Baseball In Exercises 13–15, use the diagram and the following information.

The infield of a baseball field is a square. The distance from home plate to first base is 90 feet.

- 13. What is the distance from home plate to second base?
- 14. What is the distance from third base to first base?
- **15.** If the pitcher's mound is 60 feet 6 inches from home plate, is it the midpoint of the diagonal from home plate to second base?

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Geometry
Chapter 9 Resource Book

Extra Practice

9.4

Name

In 1-9, find the value of each variable in radical form.

1. 4 30°

2. c

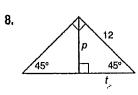
3.

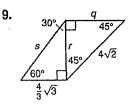
4. g
45°

5.

6. k

7. 30° 30° 5

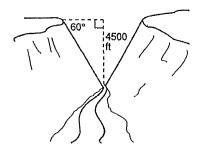




- 10. The perimeter of a square is 36. What is the length of the diagonal?
- 12. What is the length of a side of an isosceles right triangle if its hypotenuse is 16?
- 14. The perimeter of a rectangle is 66. The length is twice the width. What is the length of the diagonal?
- 11. What is the length of a side of an equilateral triangle whose altitude has a length of 18?
- 13. The length of the diagonal of a square is $\frac{5\sqrt{2}}{2}$. What is the length of a side?
- 15. The perimeter of an equilateral triangle is 36. What is the length of an altitude?

In 16-18, use the diagram and the following information.

A point on the edge of a symmetrical canyon is 4500 ft above a river that cuts through the canyon floor. The angle of depression from each side of the canyon to the canyon floor is 60°.



- 16. Find the distance across the canyon.
- 18. Is it more or less than a mile across the canyon?
- 17. Find the length of the canyon wall (from the edge to the river).