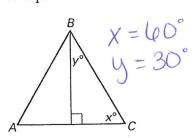
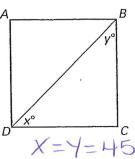
For use with pages 551-557

Find the value of each variable in the polygon.

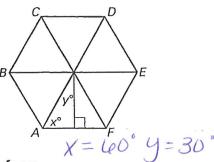
1. Equilateral $\triangle ABC$



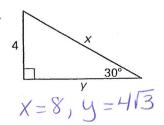
2. Square ABCD



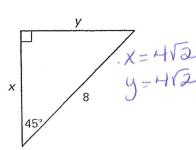
3. Regular hexagon ABCDEF

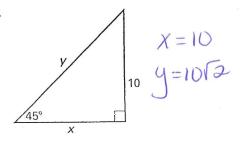


Find the value of each variable. Write answers in simplest radical form.

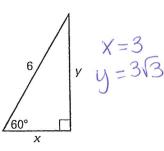


5.

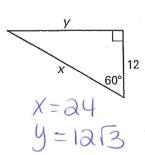




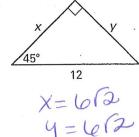
7.



8.



9.



Sketch the figure that is described. Find the requested length.

Round decimals to the nearest tenth. ALL Great Quiz/185 10. The side length of an equilateral triangle is 20 centimeters. Find the length of an altitude of the triangle.

2nd

- 11. The perimeter of a square is 20 centimeters. Find the length of a diagonal. $5\sqrt{2}$
- 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? 90
- 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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7 63 ft 47 67 Geometry

90 ft Home Chapter 9 Resource Book

Pitcher's mound



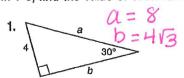
No, not midpt

Extra Practice

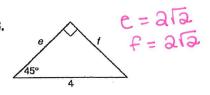
8.

Name _

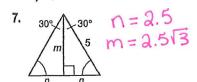
In 1-9, find the value of each variable in radical form.

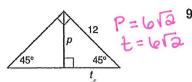


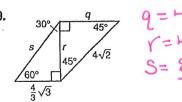
60



K=10/3 1=20





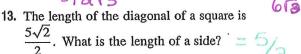


10. The perimeter of a square is 36. What is the length of the diagonal?

12. What is the length of a side of an isosceles right triangle if its hypotenuse is 16?

11. What is the length of a side of an equilateral triangle whose altitude has a length of 18? = 1213

6.

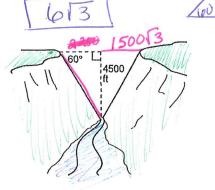


14. The perimeter of a rectangle is 66. The length is twice the width. What is the length of the diagonal? X=12420

15. The perimeter of an equilateral triangle is 36. What is the length of an altitude?

X = 2 V405 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. 40000000 3FL

17. Find the length of the canyon wall (from the edge to the river).

18. Is it more or less than a mile across the canyon?

3000134+

mile is ... 5280 ft i it is less that a mile. Geometry

9.4 Special Right Triangles 79

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