8-3) Skills Practice

Special Right Triangles

Find the exact values of x and y.

1.

2.

3.

4.

5.

6.
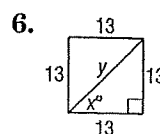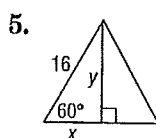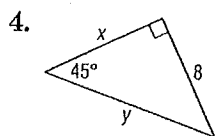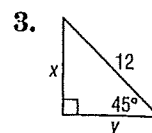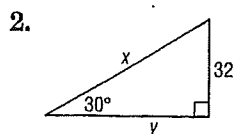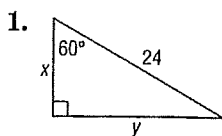
For Exercises 7–9, use the figure at the right.
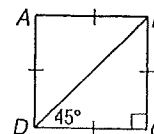
7. If $a = 11$, find b and c.
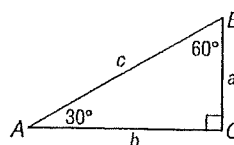
8. If $b = 15$, find a and c.
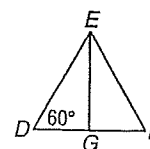
9. If $c = 9$, find a and b.

For Exercises 10 and 11, use the figure at the right.

10. The perimeter of the square is 30 inches. Find the length of $\overline{BC}$.

11. Find the length of the diagonal $\overline{BD}$.

12. The perimeter of the equilateral triangle is 60 meters. Find the length of an altitude.

13. $\triangle GEC$ is a 30°-60°-90° triangle with right angle at E, and $\overline{EC}$ is the longer leg. Find the coordinates of G in Quadrant I for $E(1, 1)$ and $C(4, 1)$.

Lesson 8-3