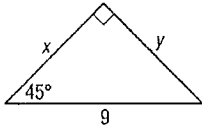


7-3 Practice

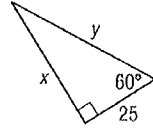
Special Right Triangles

Find x and y .

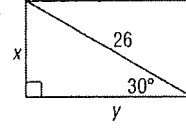
1.



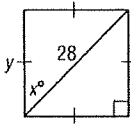
2.



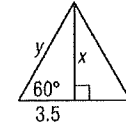
3.



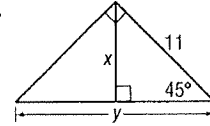
4.



5.



6.

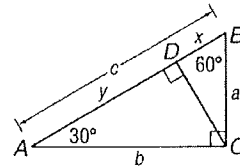


For Exercises 7-9, use the figure at the right.

7. If $a = 4\sqrt{3}$, find b and c .

8. If $x = 3\sqrt{3}$, find a and CD .

9. If $a = 4$, find CD , b , and y .



10. The perimeter of an equilateral triangle is 39 centimeters. Find the length of an altitude of the triangle.

11. $\triangle MIP$ is a 30° - 60° - 90° triangle with right angle at I , and \overline{IP} the longer leg. Find the coordinates of M in Quadrant I for $I(3, 3)$ and $P(12, 3)$.

12. $\triangle TJK$ is a 45° - 45° - 90° triangle with right angle at J . Find the coordinates of T in Quadrant II for $J(-2, -3)$ and $K(3, -3)$.

13. **BOTANICAL GARDENS** One of the displays at a botanical garden is an herb garden planted in the shape of a square. The square measures 6 yards on each side. Visitors can view the herbs from a diagonal pathway through the garden. How long is the pathway?

