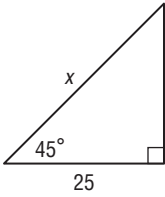


# 8-3 Skills Practice

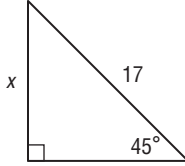
## Special Right Triangles

Find  $x$ .

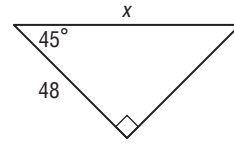
1.



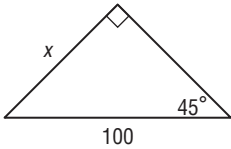
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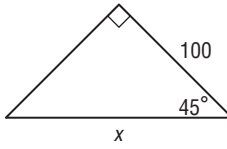
3.



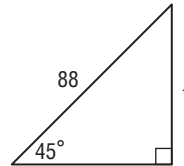
4.



5.



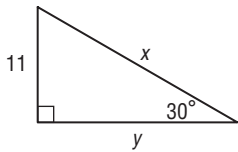
6.



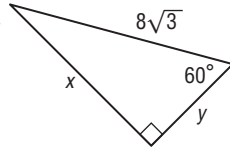
- Determine the length of the leg of  $45^\circ-45^\circ-90^\circ$  triangle with a hypotenuse length of 26.
- Find the length of the hypotenuse of a  $45^\circ-45^\circ-90^\circ$  triangle with a leg length of 50 centimeters.

Find  $x$  and  $y$ .

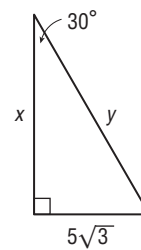
9.



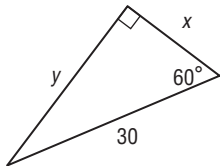
10.



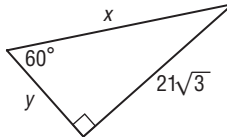
11.



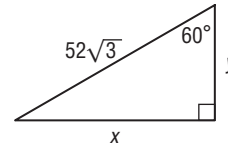
12.



13.



14.



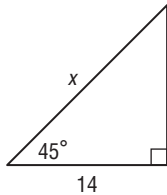
- An equilateral triangle has an altitude length of 27 feet. Determine the length of a side of the triangle.
- Find the length of the side of an equilateral triangle that has an altitude length of  $11\sqrt{3}$  feet.

# 8-3 Practice

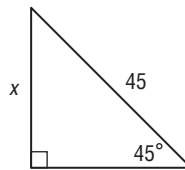
## Special Right Triangles

Find  $x$ .

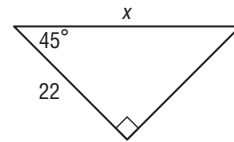
1.



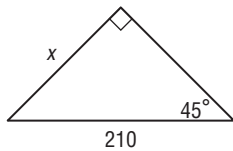
2.



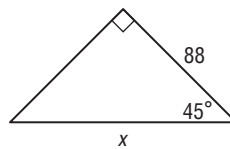
3.



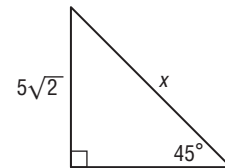
4.



5.

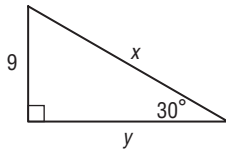


6.

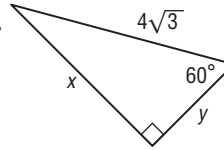


Find  $x$  and  $y$ .

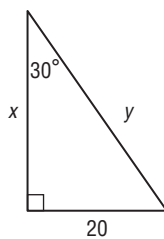
7.



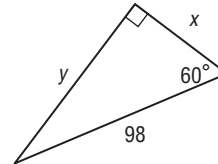
8.



9.



10.



11. Determine the length of the leg of  $45^\circ$ - $45^\circ$ - $90^\circ$  triangle with a hypotenuse length of 38.

12. Find the length of the hypotenuse of a  $45^\circ$ - $45^\circ$ - $90^\circ$  triangle with a leg length of 77 centimeters.

13. An equilateral triangle has an altitude length of 33 feet. Determine the length of a side of the triangle.

14. **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?

