8-3 Skills Practice
Special Right Triangles

Find x.

1.

$25\sqrt{2}$

2.

$8.5\sqrt{2}$ or $\dfrac{17\sqrt{2}}{2}$

3.

$48\sqrt{2}$

4.

$50\sqrt{2}$

5.

$100\sqrt{2}$

6.

$44\sqrt{2}$

7. Determine the length of the leg of 45°–45°–90° triangle with a hypotenuse length of 26. $13\sqrt{2}$

8. Find the length of the hypotenuse of a 45°–45°–90° triangle with a leg length of 50 centimeters.

$50\sqrt{2}$ cm

Find x and y.

9.

22; $11\sqrt{3}$

10.

12; $4\sqrt{3}$

11.

15; $10\sqrt{3}$

12.

15; $15\sqrt{3}$

13.

42; 21

14.

78; $26\sqrt{3}$

15. An equilateral triangle has an altitude length of 27 feet. Determine the length of a side of the triangle.
$18\sqrt{3}$

16. Find the length of the side of an equilateral triangle that has an altitude length of $11\sqrt{3}$ feet.

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