

8-3 Skills Practice Special Right Triangles

Find x .

1.



$$25\sqrt{2}$$

2.



$$8.5\sqrt{2} \text{ or } \frac{17\sqrt{2}}{2}$$

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 $2613\sqrt{2}$

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

$$50\sqrt{2} \text{ cm}$$

Find x and y .

9.



$$22; 11\sqrt{3}$$

10.



$$12; 4\sqrt{3}$$

11.



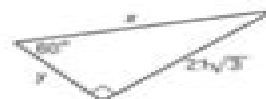
$$15; 10\sqrt{3}$$

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.

$$22$$

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