



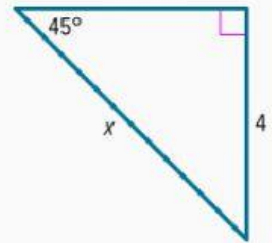
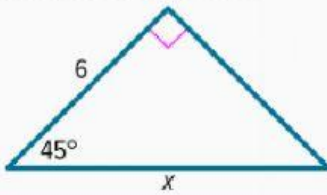
Special Right Triangles

Find the value of x .

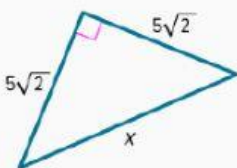
The acute angles of a right triangle are complementary, so the measure of the third angle is $90 - 45$ or 45° . Because this is a 45° - 45° - 90° triangle, use the 45° - 45° - 90° Triangle Theorem.

$$h = \ell\sqrt{2} \quad 45^\circ\text{-}45^\circ\text{-}90^\circ \text{ Triangle Theorem}$$

$$x = \boxed{}\sqrt{2} \quad \text{Substitution}$$

Find the value of x .

- A 3
- B $3\sqrt{2}$
- C 6
- D $6\sqrt{2}$

Find the value of x .

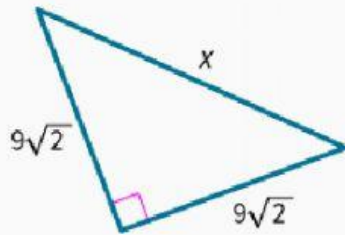
The legs of this right triangle have the same measure, so it is isosceles. Because this is a 45° - 45° - 90° triangle, use the 45° - 45° - 90° Triangle Theorem.

$$h = \ell\sqrt{2} \quad 45^\circ\text{-}45^\circ\text{-}90^\circ \text{ Triangle Theorem}$$

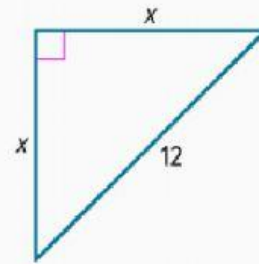
$$\boxed{} = 5\sqrt{2} \cdot \sqrt{2} \quad \text{Substitution}$$

$$\boxed{} = 5 \cdot \boxed{} \text{ or } \boxed{} \sqrt{2} \cdot \sqrt{2} = \boxed{}$$

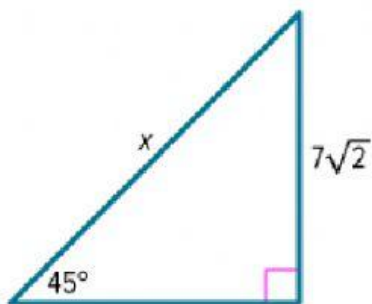
عزيزي الطالب : أولاً اجتهد في فهم ومذاكرة تمارين الكتاب (الكتاب أولاً). تلميحتي للجميع بالنجاح والتفوق

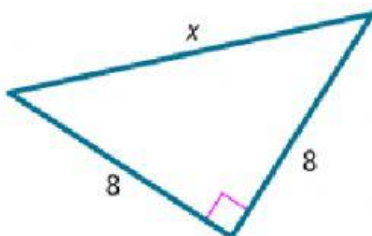
Find the value of x .

- A 9
- B 18
- C $18\sqrt{2}$
- D 36

Find the value of x .

- A $3\sqrt{2}$
- B 6
- C $\frac{12}{\sqrt{2}}$
- D $12\sqrt{2}$

Find the value of x .

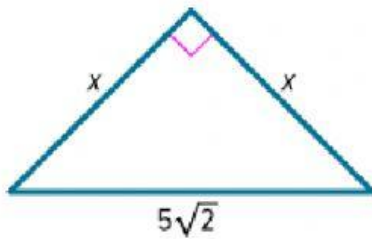
Find the value of x .

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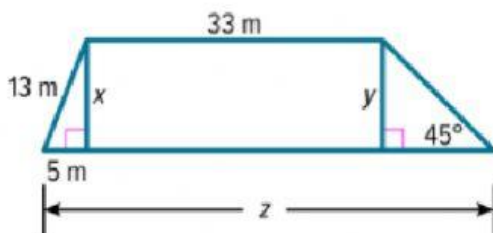
عزيزي الطالب : اولاً اجتهد في فهم ومذاكرة تمارين الكتاب (الكتاب اولاً) . تلميحتي للجميع بالنجاح والتفوق



Find the value of x .



Find each missing measure. Then find the perimeter and area of the trapezoid. Round each answer to the nearest whole number, if necessary.



$$x = \boxed{} \text{ m}$$

$$y = \boxed{} \text{ m}$$

$$z = \boxed{} \text{ m}$$

$$\text{Perimeter} = \boxed{} \text{ m}$$

$$\text{Area} = \boxed{} \text{ m}^2$$



CAMPING Aiden is going camping this weekend. His camping tent can be modeled by a triangular prism. The entrance of the tent is approximately an equilateral triangle. If each edge of the entrance is 7 feet, how tall is the tent? Round your answer to the nearest hundredth, if necessary.

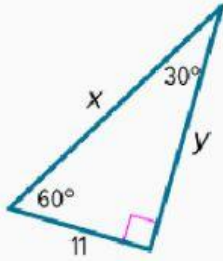
$$\boxed{} \text{ ft}$$



عزيزي الطالب : أولاً اجتهد في فهم ومذاكرة تمارين الكتاب (الكتاب أولاً) . تلميحتي للجميع بالنجاح والتفوق



Find the values of x and y .

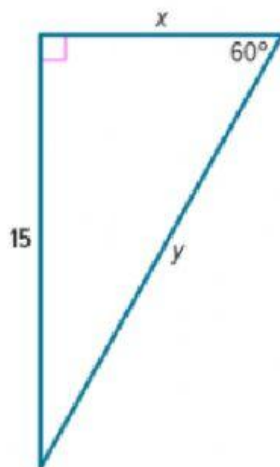


- A $x = \frac{11}{2}; y = \frac{11\sqrt{3}}{3}$
- B $x = 22; y = 11\sqrt{3}$
- C $x = 22; y = \frac{11\sqrt{3}}{3}$
- D $x = 11\sqrt{3}; y = 22$

This question has two parts. First, answer Part A. Then, answer Part B.

Part A

Find the value of each variable.



a. x

- A) 5
- B) $\frac{15}{2}$
- C) $\frac{15}{\sqrt{3}}$
- D) $\frac{15\sqrt{3}}{2}$
- E) $10\sqrt{3}$

Part B

b. y

- A) 5
- B) $\frac{15}{2}$
- C) $5\sqrt{3}$
- D) $\frac{15\sqrt{3}}{2}$
- E) $\frac{30}{\sqrt{3}}$

عزيزي الطالب : أولاً اجتهد في فهم ومذاكرة تمارين الكتاب (الكتاب أولاً). تلميحتي للجميع بالنجاح والتفوق