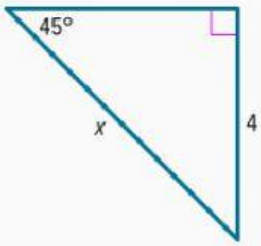
Special Right Triangles

Find the value of *x*.

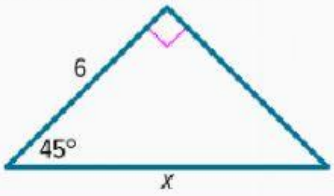


The acute angles of a right triangle are complementary, so the measure of the third angle is $90 - 45$ or 45°. Because this is a 45°-45°-90° triangle, use the 45°-45°-90° Triangle Theorem.

$h = \ell\sqrt{2}$ 45°-45°-90° Triangle Theorem

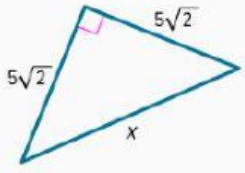
$x = \square\sqrt{2}$ Substitution

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.

$h = \ell\sqrt{2}$ 45°-45°-90° Triangle Theorem

$\square = 5\sqrt{2} \cdot \sqrt{2}$ Substitution

$\square = 5 \cdot \square$ or $\square$ $\sqrt{2} \cdot \sqrt{2} = \square$

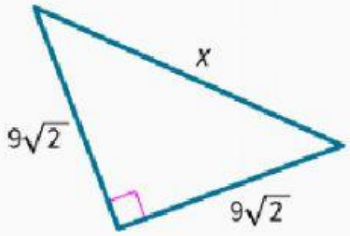
عزيزي الطالب : أولاً اجتهد في فهم ومذاكرة تمارين الكتاب(الكتاب أولاً) . تمنياتي للجميع بالنجاح والتفوق

LIVEWORKSHEETS

Math Mr. Abdulkader Amro

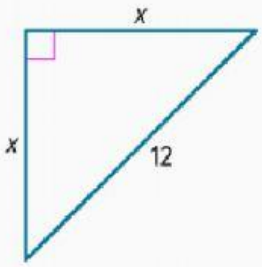


Find the value of x.



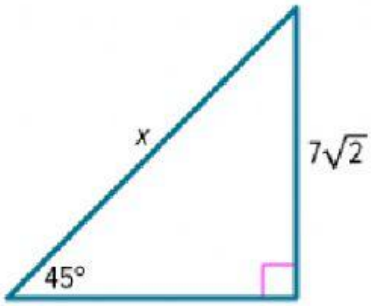
- A 9
- B 18
- C $18\sqrt{2}$
- D 36

Find the value of x.

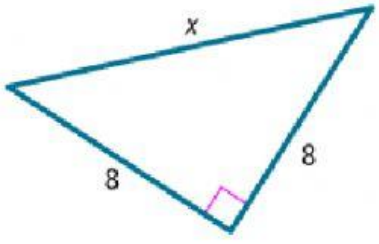


- A $3\sqrt{2}$
- B 6
- C $\frac{12}{\sqrt{2}}$
- D $12\sqrt{2}$

Find the value of x.



Find the value of x.



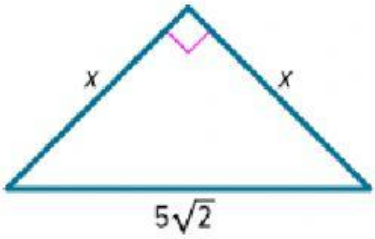
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LIVEWORKSHEETS

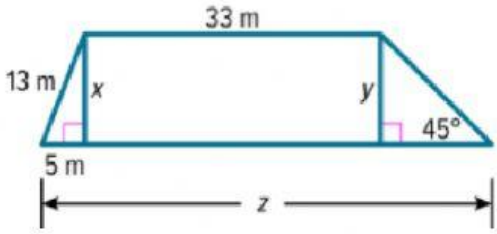


Find the value of x.





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



$x =$ ____ m

$y =$ ____ m

$z =$ ____ m

Perimeter = ____ m

Area = ____ 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.

____ ft

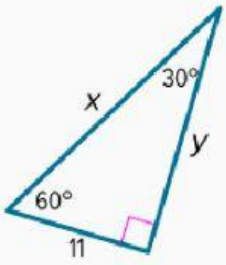


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Find the values of x and y.

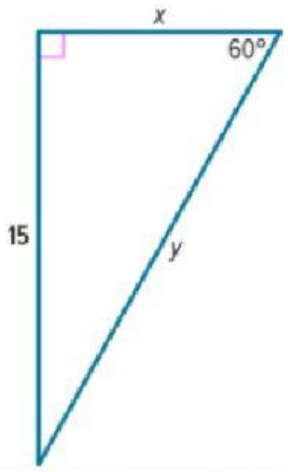


- A $x = \frac{11}{2}; y = \frac{11\sqrt{3}}{3}$
- B $x = 22;\ y = 11\sqrt{3}$
- C $x = 22;\ y = \frac{11\sqrt{3}}{3}$
- D $x = 11\sqrt{3};\ y = 22$

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) $\frac{30}{\sqrt{3}}$

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