Chapter 7 Jeopardy Game

By:Kyle, Yash, and Brahvan

Pythagorean Theorem	Special Right Triangles	Sine + Cosine	Geometric Mean Theorems
10	10	10	10
20	20	20	20
30	30	30	30
40	40	40	40
50	50	50	50

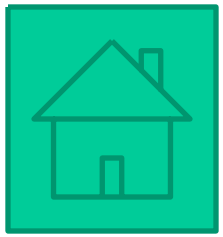
Which of these are a Pythagorean triples?

A) 3,4,5

B) 6,8,9

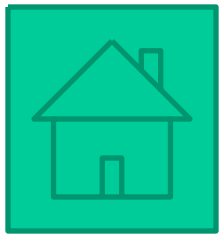
C) 13,14,16

A

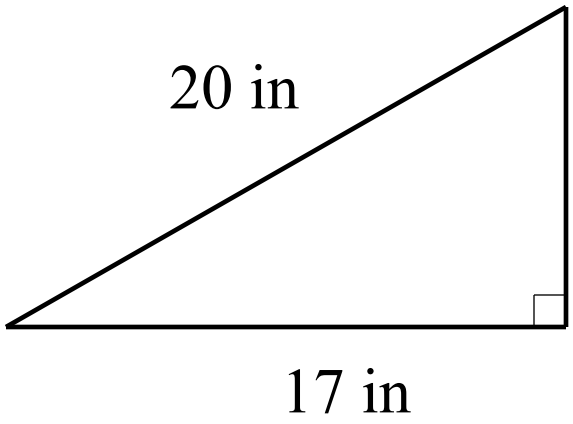


The legs of a right triangle are 14 in. And 17 in. long. How long is the hypotenuse?

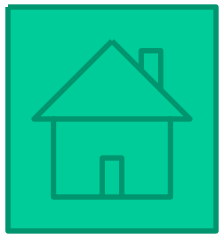
$\sqrt{485}$



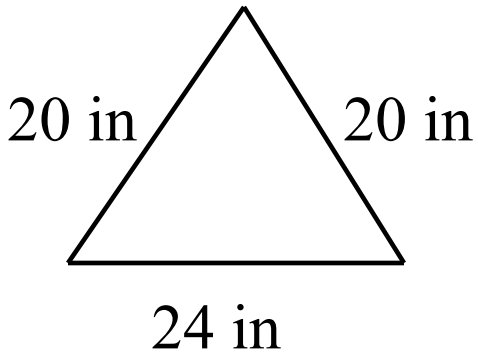
If the hypotenuse of a right triangle is 20 in. long, and one leg is 17 in. long. How long is the other leg? Write answer in simplified radical form.



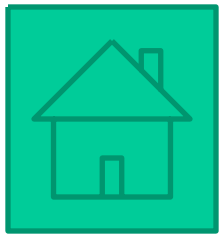
$\sqrt{111}$



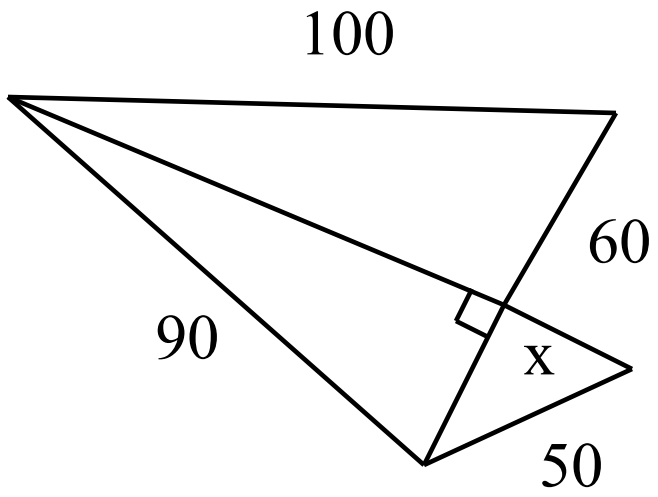
The lengths of the legs of an isosceles triangle are both 20 in and the base is 24 in. What is the area of the triangle?



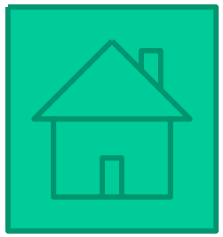
$192\ in^2$



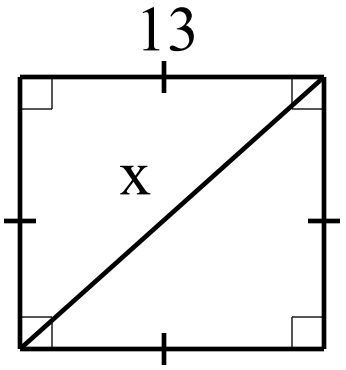
Find x. Write value in simplified radical form. ☺



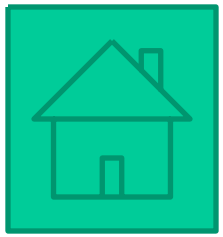
$$x=10\sqrt{8}$$



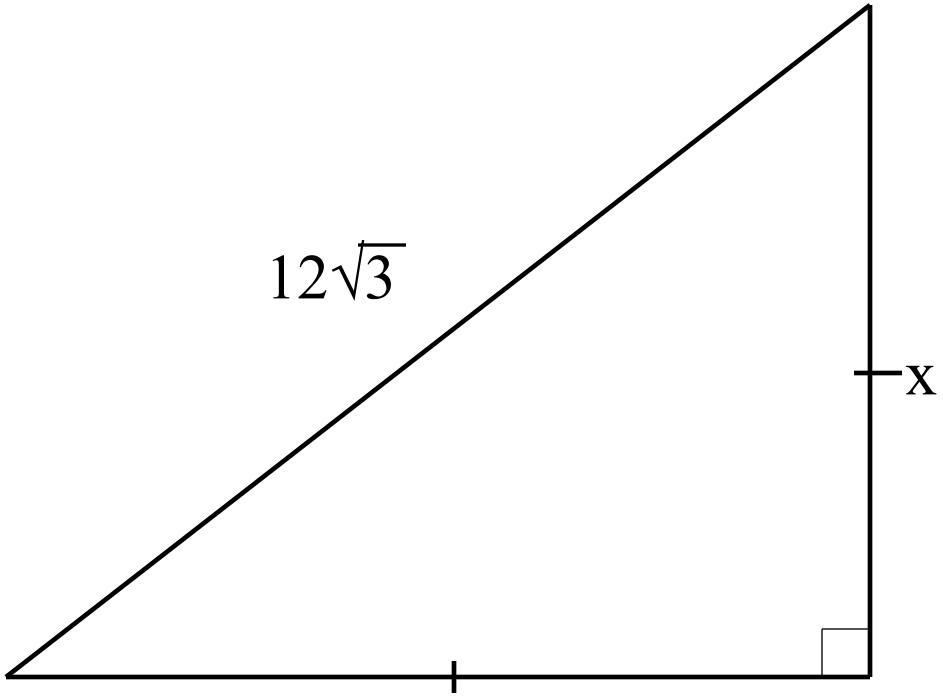
Find x. WRITE ANSWER IN SIMPLIFIED RADICAL FORM☺



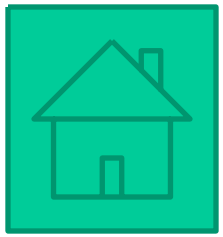
$$13\sqrt{2}$$



Find x. WRITE ANSWER IN SIMPLIFIED RADICAL FORM☺



$6\sqrt{6}$

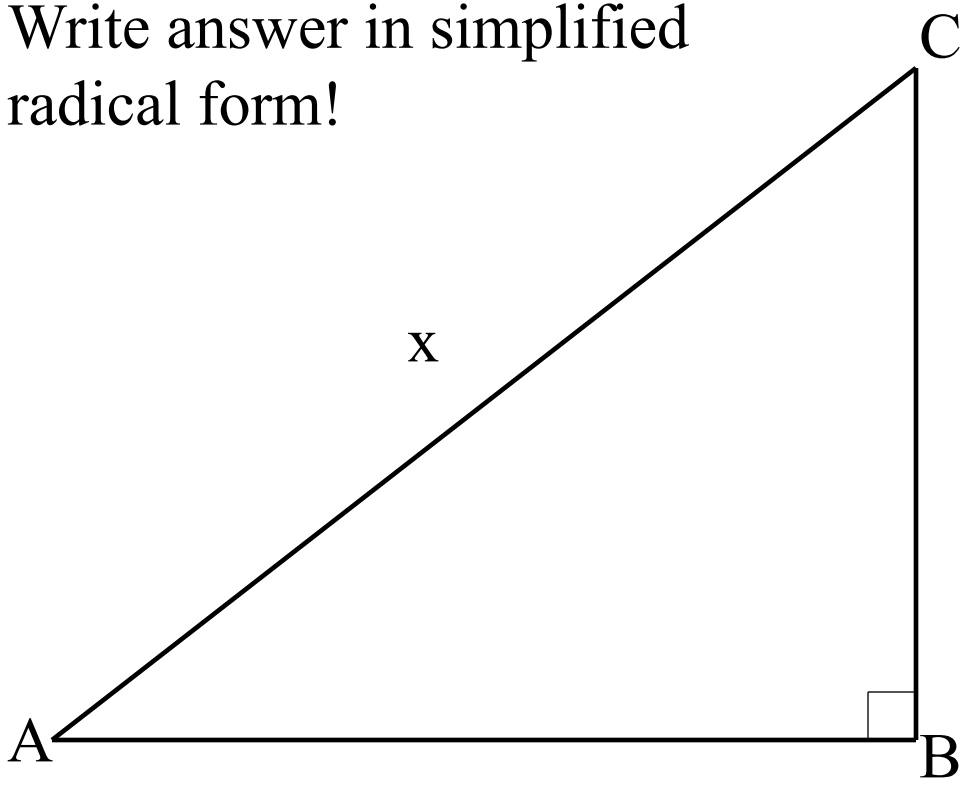


Find BC if…

a) $x = 2\sqrt{3}$ and $m\angle A = 45^\circ$

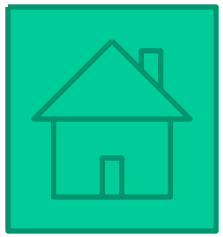
b) $x = 2\sqrt{2}$ and $m\angle A = 60^\circ$

Write answer in simplified radical form!

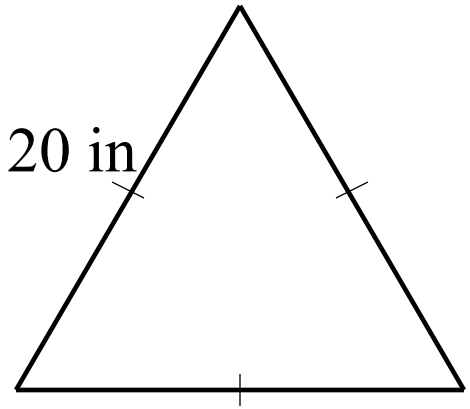


a) $\sqrt{6}$

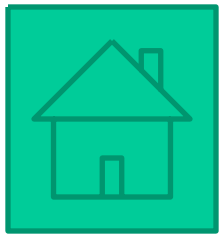
b) $\sqrt{2}$



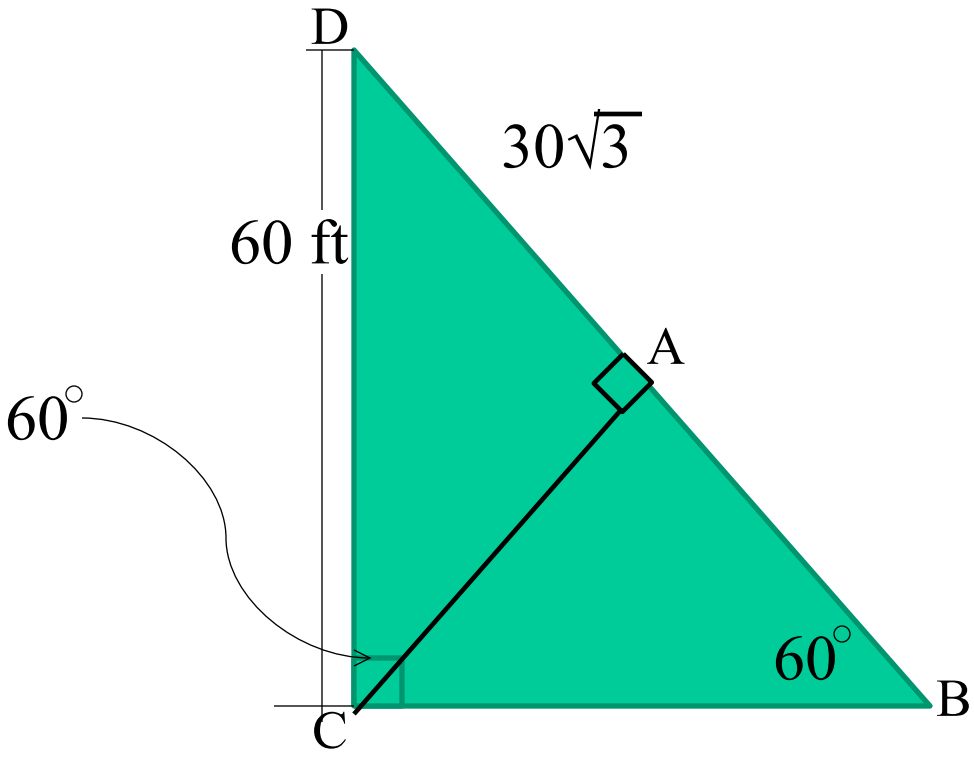
If an equilateral triangle has a side length of 20 in, find the height of the triangle.



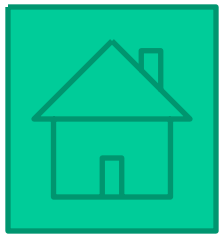
$10\sqrt{3}$



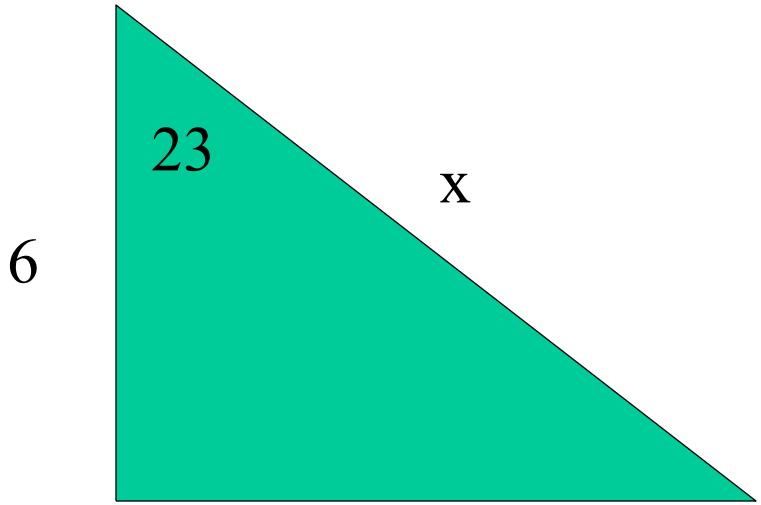
What is the length of CB?



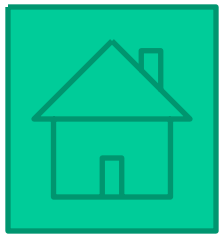
$20\sqrt{3}$



Find x

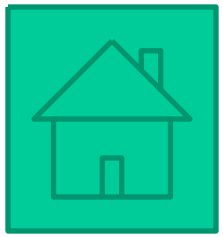


15.4



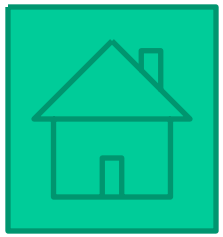
ABC is a right triangle with the side opposite angle A is 6 and angle A is 36 degrees. Find the hypotenuse.

10



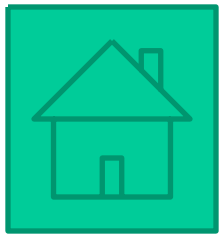
What is the saying to remember sine, cosine, and tangent.

SOH CAH TOA

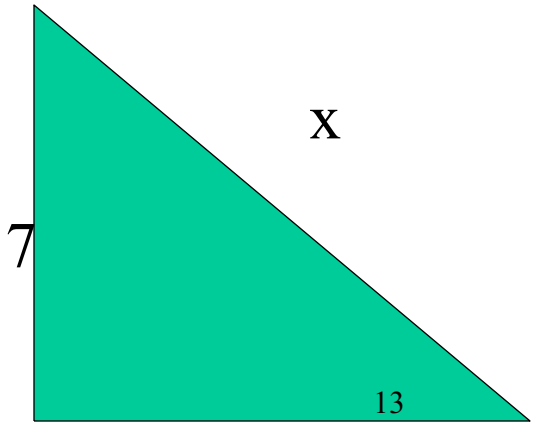


If the opposite side from angle A is 8 and the measure of angle a is 43 degrees, find the adjacent side.

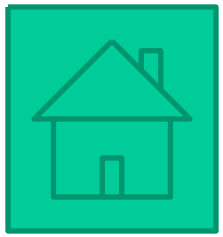
8.6



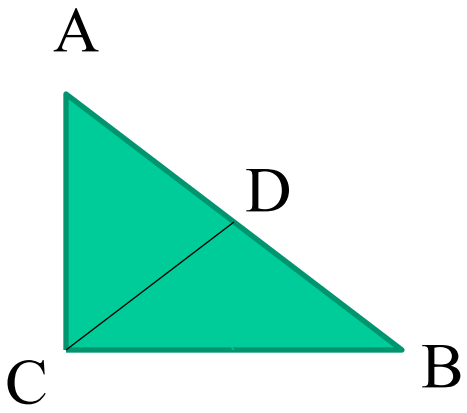
Find x



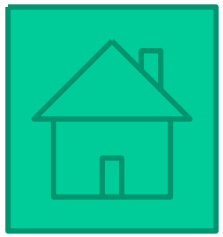
X=31.1



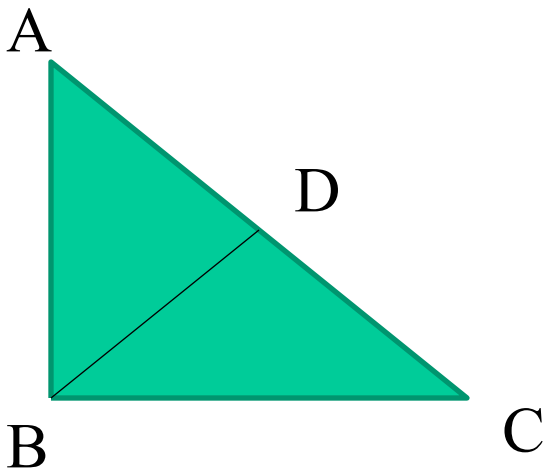
If CD =5 and AD=4, what does BD=?



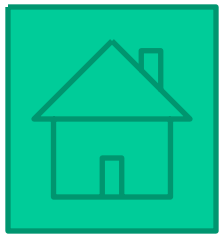
BD=25/4



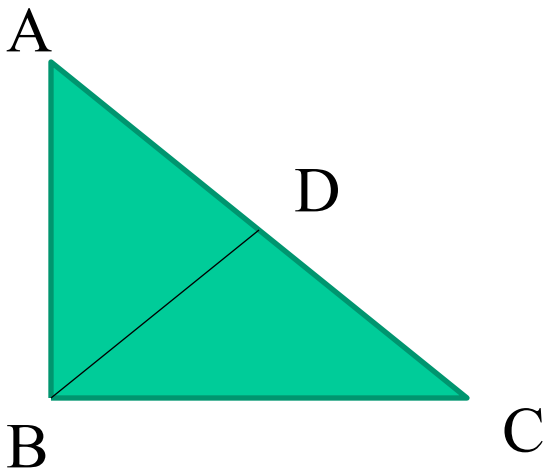
If CB=4 and AB=3, find BD



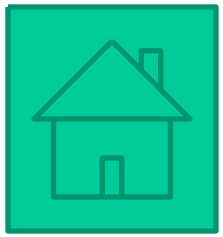
BD=16/3



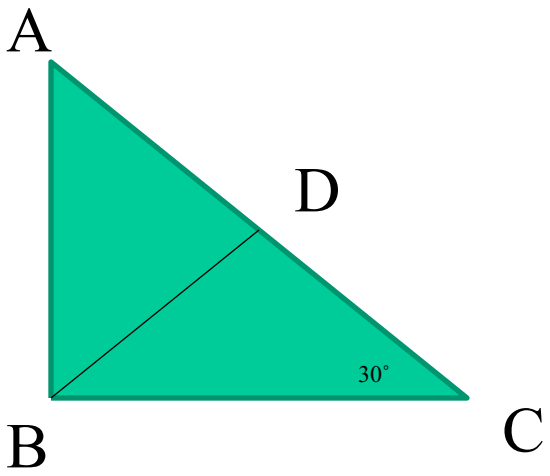
AC=23, AB=4, find AD



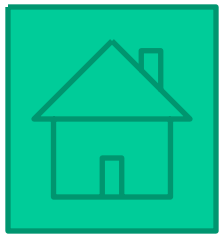
AD= 529/4



Name all Similar Triangles



Triangle ACB~Triangle ABD~ Triangle BCD



Explain Why the Proportions of the Geometric Mean Theorems Work

The Altitude forms 3 similar triangles.