Chapter 7

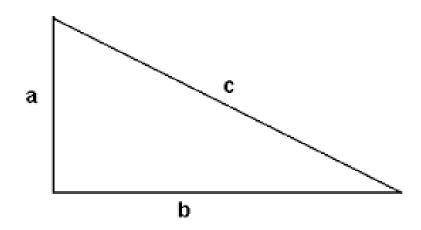
>>> RIGHT TRIANGLES AND TRIGONOMETRY

7.1

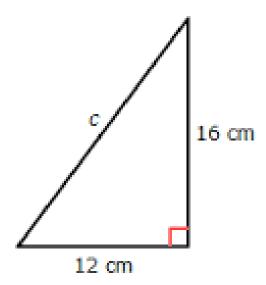
>>> PYTHAGOREAN THEOREM

Pythagorean Theorem

In a _____, the Pythagorean Theorem says _____, where ____ is the ____ are the ____.

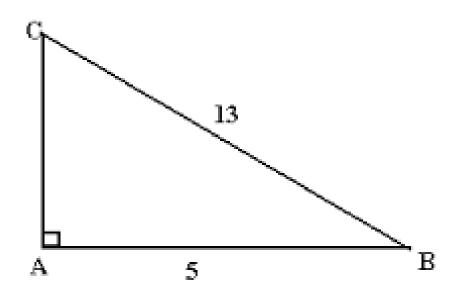


EX:

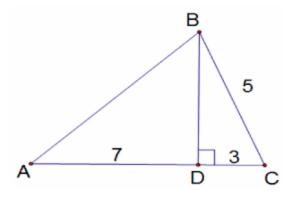


What is the length of the hypotenuse?

EX: Find the unknown side.



EX: Find AB.



EX: Standardized Test Practice

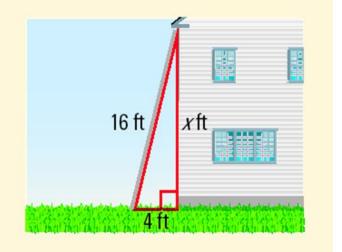
A 16 foot ladder rests against the side of the house, and the base of the ladder is 4 feet away. Approximately how high above the ground is the top of the ladder?

(A) 240 feet

B 20 feet

© 16.5 feet

D 15.5 feet

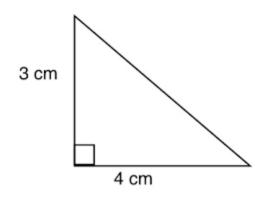


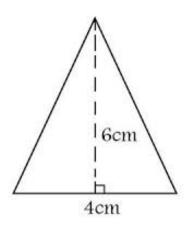
EX:

The top of a ladder rests against a wall, 23 feet above the ground. The base of the ladder is 6 feet away from the wall. What is the length of the ladder?

Area of a Triangle

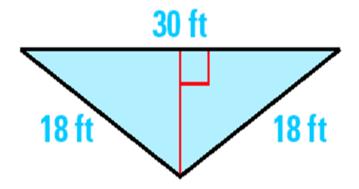
- Area = ______
- b = ______
- h = _____





EX:

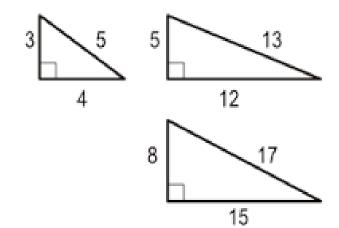
Find the area of the triangle.



Pythagorean Triples

A set of _____ that makes _____ true.

Pythagorean Triples (3, 4, 5)(7, 24, 25)(8, 15, 17)(5, 12, 13)(9, 40, 41) (11, 60, 61)(12, 35, 37)(13, 84, 85)(16, 63, 65) (20, 21, 29) (28, 45, 53) (33, 56, 65)(36, 77, 85) (39, 80, 89) (48, 55, 73) (65, 72, 97)



EX: Use Pythagorean Triples to find the missing side.

