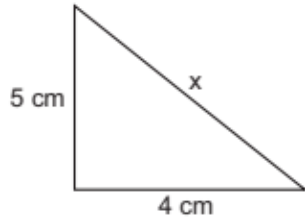


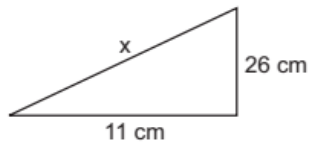
Pythagoras Theorem

1. Find the value of x in the given figures.

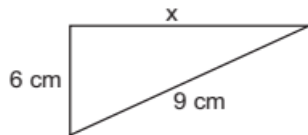
A.



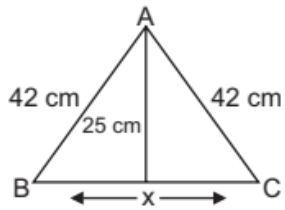
B.



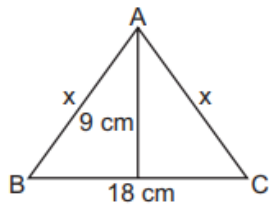
C.



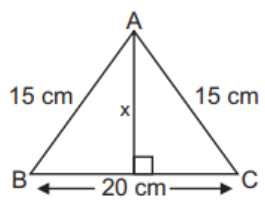
D.



E.



F.



2. Verify that the following numbers represent Pythagorean triplet. Can they be the sides of a right-angled triangle?
 - A. 27, 36, 45
 - B. 16, 63, 65
 - C. 0.8, 2.4, 3.5
3. A man goes 5 km north and then 7 km east. Find how far away is he from his initial position?
4. If two sides of right triangle are equal and the square of hypotenuse measures 132 cm^2 , find the length of each side.
5. Find the length of the diagonal of a rectangle whose sides are 15m and 28m.
6. A ladder is placed against a wall of a building, 16m above the ground. The foot of the ladder is 13m away from the bottom of the building. What is the length of the ladder?
7. Two poles of heights 58m and 10m stand upright on the ground. The distance between them is 14m. Find the length of the wire stretched from the top of one pole to the top of the other pole.