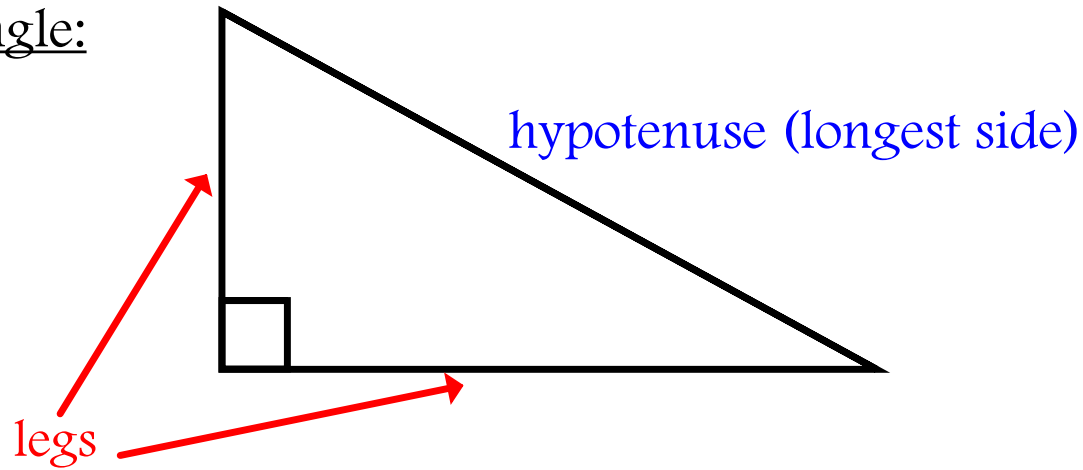
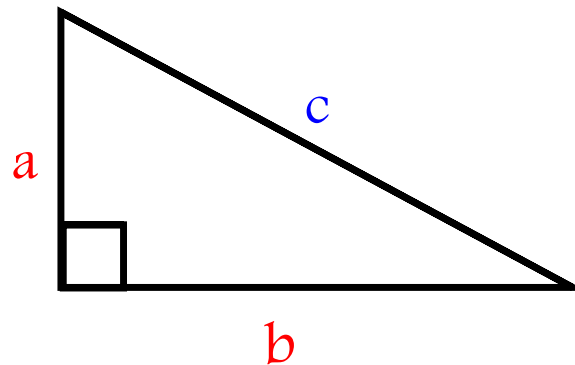


Notes #8 ~ Sect. 11.2: Pythagorean Theorem

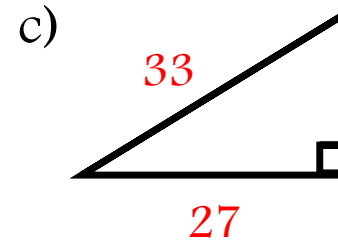
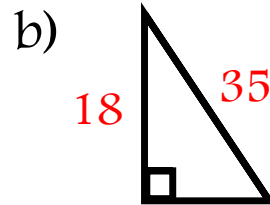
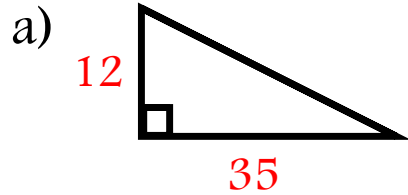
Right Triangle:



Pythagorean Theorem : $a^2 + b^2 = c^2$



Ex. 1: Find the length of the missing side to the nearest tenth.



Ex. 2: Determine whether the given lengths can be sides of a right triangle.

a) 9, 12, 15

b) 1, 2, 3

Ex. 3: A ladder is 20 ft. long. The ladder needs to reach to a window that is 12 ft. above the ground. How far away from the building should the bottom of the ladder be placed?

Ex. 4: Suppose you leave your house and travel 12 mi. due west. Then you travel 9 mi. due south. How far are you from your house?