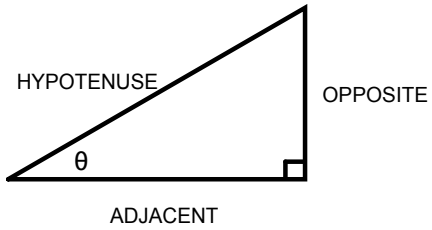
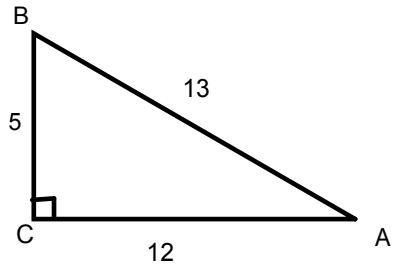
# Trig Ratios in Right Triangles

No matter how large or small a triangle is, if the angles are the same size, the ratios of corresponding sides are equal.



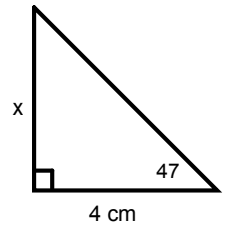

The 3 primary trig ratios for θ are:

Example 1 Determine the 3 primary trig ratios for angles A and B.

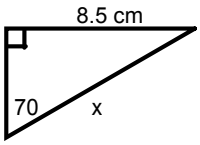


Example 2 Find the length of x in each triangle.

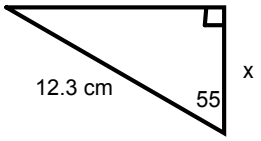
a.




b.

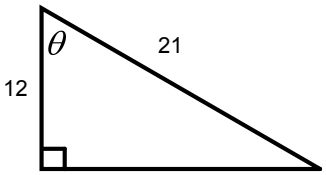



c.

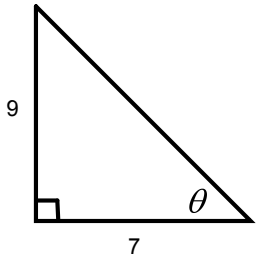



Example 3 Determine the measure of angle $\theta$ in each triangle.

a.




b.




Example 4 A 10 foot ladder leans against a wall. From the base of the ladder, the angle of elevation to the top of the ladder is 65 degrees. How far is the base of the ladder from the wall?