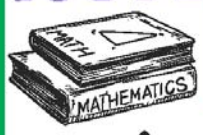
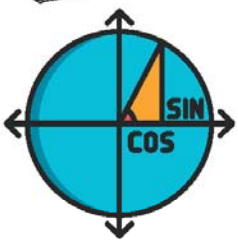
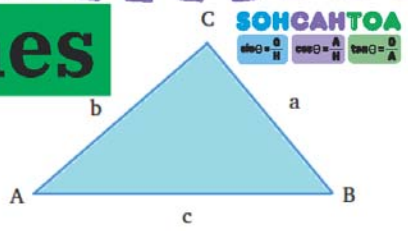
Name : Class :



Law of Cosines



This law states that relation between the lengths of sides of a triangle with respect to the cosine of its angle



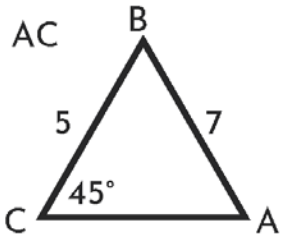
$a^2 = b^2 + c^2 - 2bc\cos(A)$

$b^2 = a^2 + c^2 - 2ac\cos(B)$

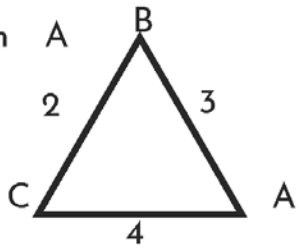
$c^2 = a^2 + b^2 - 2ab\cos(C)$

Using law of cosines find the each measurement indicated.

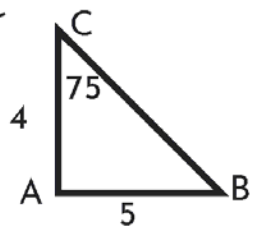
1) Find AC



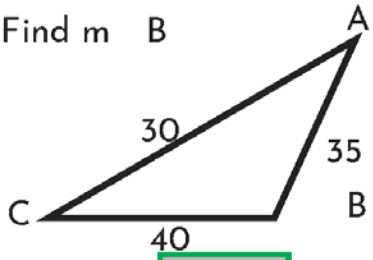
2) Find m A



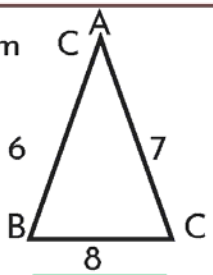
3) Find BC



4) Find m B



5) Find m C



6) Find AB