**COSINE LAW**

The law of cosines can be used to solve oblique triangles when:

1. Two sides and the angle between them are known

OR

1. All three sides are known.

Triangle ABC with sides labeled in lower case a b and c


For triangle ABC, a2 = b2 + c2 – 2bccosA

b2 = a2 + c2 – 2accosB

c2 = a2 + b2 – 2abcosC

Also, cosA = 

cosB and cos C can be solved in a similar fashion