

EQ:

Two Methods to Solve "Oblique Triangles":

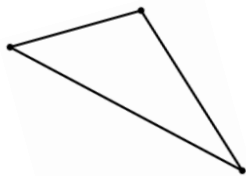
- _____
- _____ If a problem refers to _____ and an _____ use Law Of Cosines.

Use the Following Cases for Law of Cosines:

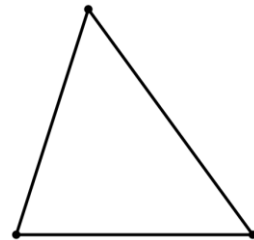
I. _____ --- _____

II. _____ --- _____

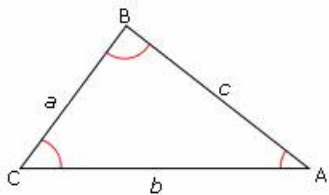
Case I:



Case II:



Formulas for Law of Cosines:

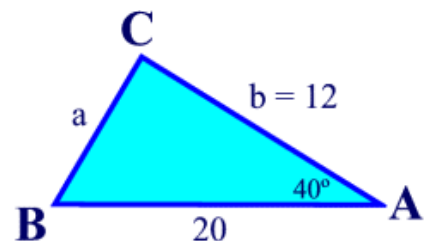


_____ = _____

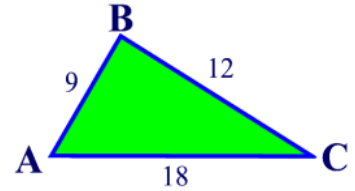
_____ = _____

_____ = _____

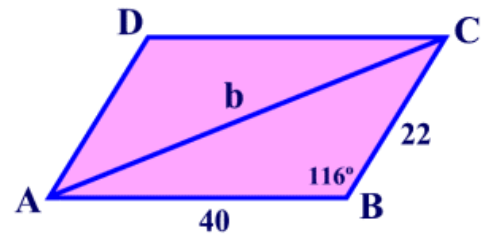
Ex 1. Given side $b = 12$, side $c = 20$ and $m\angle A = 40^\circ$. Find the length of side a to the nearest integer.



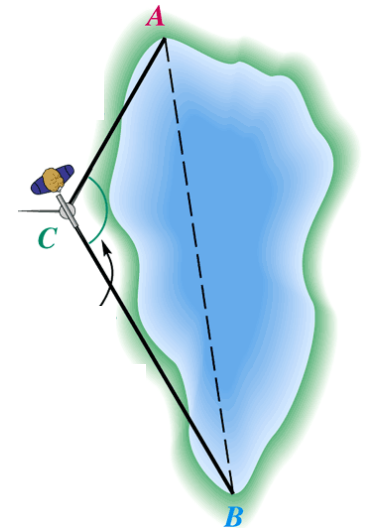
Ex. 2 Find the measure of the largest angle, to the nearest tenth of a degree, of a triangle whose sides are 9, 12, and 18.



Ex. 3 In a parallelogram, the adjacent sides measure 40 cm and 22 cm. If the larger angle of the parallelogram measure 116° , find the length of the longer diagonal, to the nearest integer.



Ex. 4 A surveyor wishes to find the distance between two inaccessible points A and B on opposite sides of a lake. While standing at point C, she finds that $AC = 259$ m, $BC = 423$ m, and angle ACB measures $132^\circ 40'$. Find the distance AB .



Assignment: Practice Worksheet #3; Practice Worksheet #4; Practice Worksheet #5