13-4 Law of Sines Day 1

Objective: Solve problems by using the law of sines.

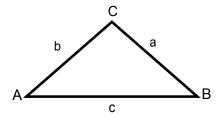
Determine whether a triangle has one, two, or no solutions.

Area of a Triangle:

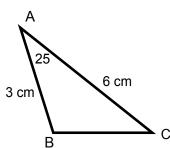
 $A = .5bc \sin A$

 $A = .5ac \sin B$

 $A = .5ab \sin C$



Ex 1) Find the area of triangle ABC to the nearest tenth.



<u>Law of Sines</u>—does not require a right triangle...works for any triangle.

I A formed SSS, SAS, ASA AAS

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

Ex 2) Solve Triangle ABC.

