7.7a “Solve a Triangle” / Law of Sines

To “Solve a Triangle” means to find the measures of all of its sides and angles

Example:

Solve triangle ABC with m<C=90, m<A=42, and b=70

Hints: First, draw a picture of triangle ABC.

Second, list all of its sides and angles (known and unknown)

How do we solve a triangle if it is NOT a right triangle?

If we have an angle/side pair of known values, we use:

Law of Sines

If triangle ABC has sides of length a, b, and c as shown, then:

Example: Solve triangle ABC