Law of Cosines: $a^2 = b^2 + c^2 - 2bc\ Cos\ A$ **Used:** *You have <u>3 Sides</u> Looking for <u>an Angle</u>*
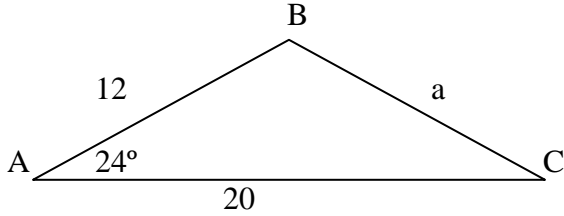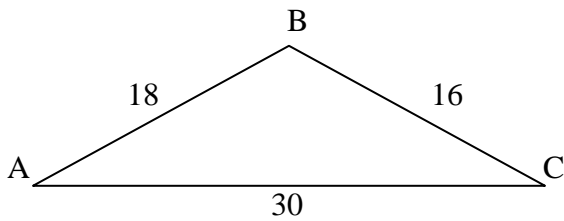   *OR You have <u>2 Sides & an Angle</u> Looking for <u>a Side</u>*
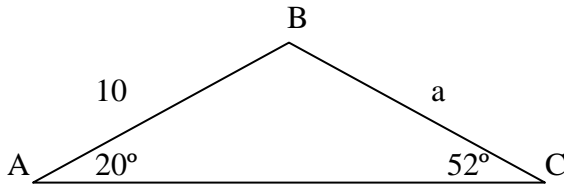   *You will know <u>All 3 Sides at the END</u>*

1. Find a to the nearest hundredth.

2. Find ∠B to the nearest tenth.

3. Find a to the nearest hundredth.

4. A ship at sea is 70 miles from one radio transmitter and 130 miles from another. The angle between the signals sent to the ship by the transmitters is 117.4°. Find the distance between the two transmitters, to the *nearest mile.*