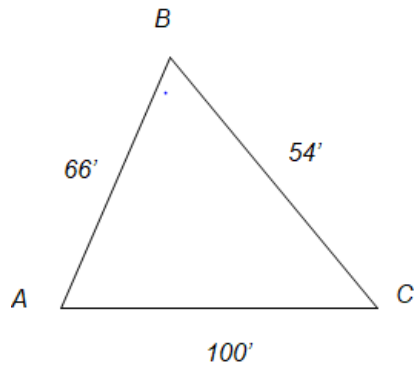Notes Law of Cosines (angles)
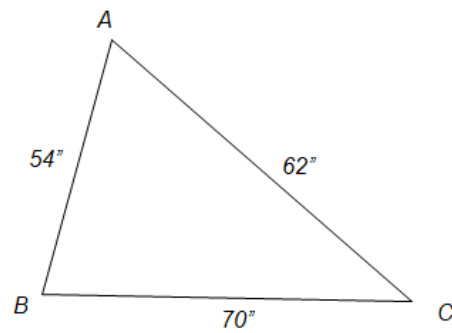
Name: _____ Date: _____ Period: _____

Learning Target: _____

_____

Law of Cosines: $a^2 = b^2 + c^2 - 2bc \cos A$

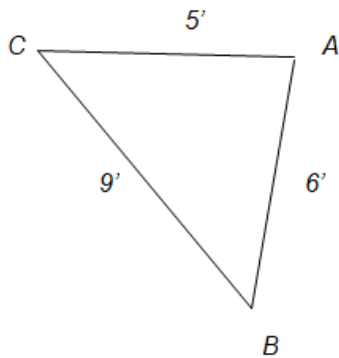Remember when using law of cosines, _____
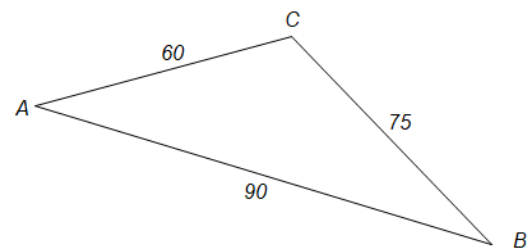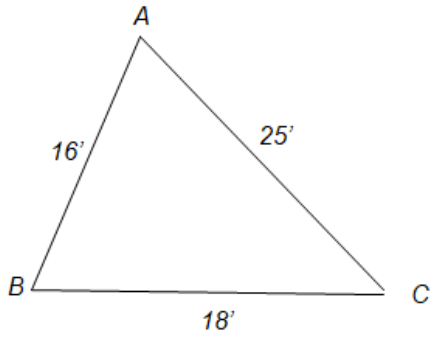
_____

Example1: Find all the angles

B

66'   54'

A   C

100'

Example2: Find all the angles

A

54"   62"

B   70"   C

Example 3: Find all the angles

5'
C   A

9'   6'

B

Example 4: Find all the angles

C
60
A   75
90
B

Practice 1: Find all the angles

A

16'   25'

B   C
   18'

Practice 2: Find all the angles

C

38

32   A

24

B
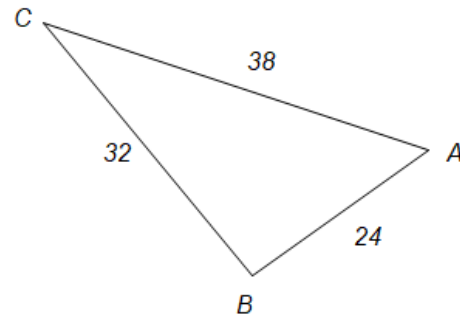
Practice 3: Find all the angles

B

18"   13"

C

27"   A
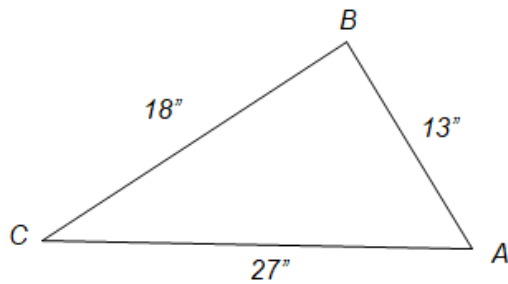
Practice 4: Find all the angles

B   15   C

20

27

A
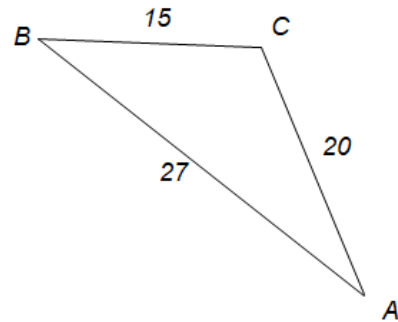
Show me you know it!

1. When do you know to use law of cosines? _____

_____

2. How do you find the first angle? _____

The second angle? _____ And the last angle? _____