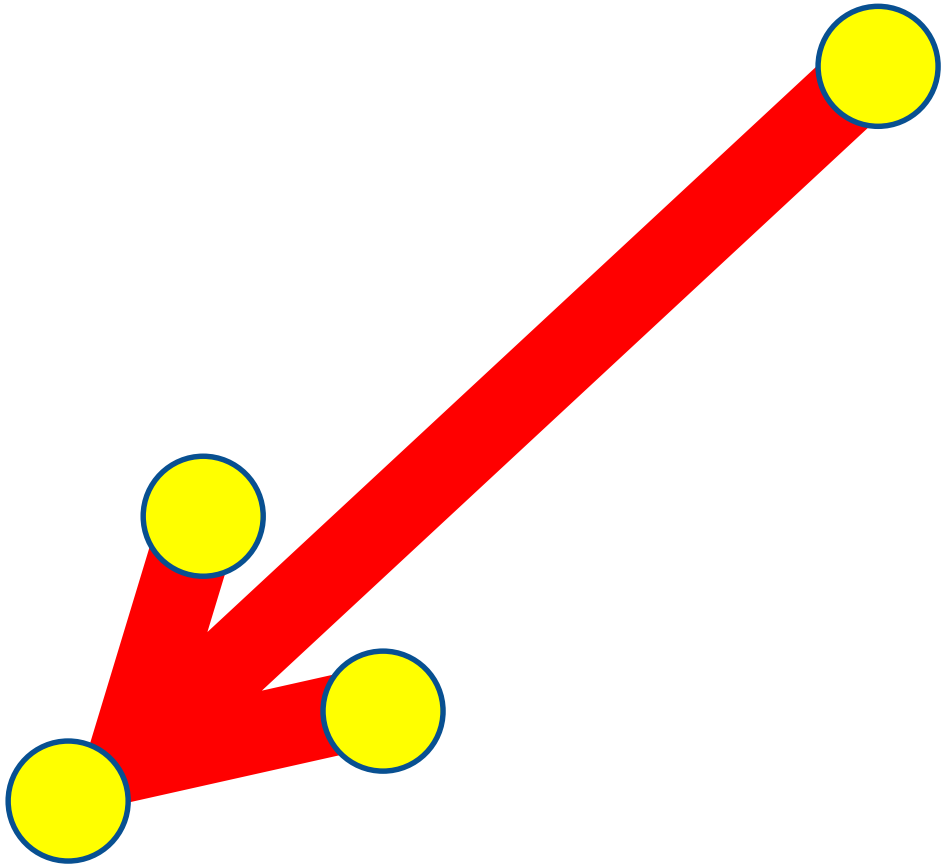
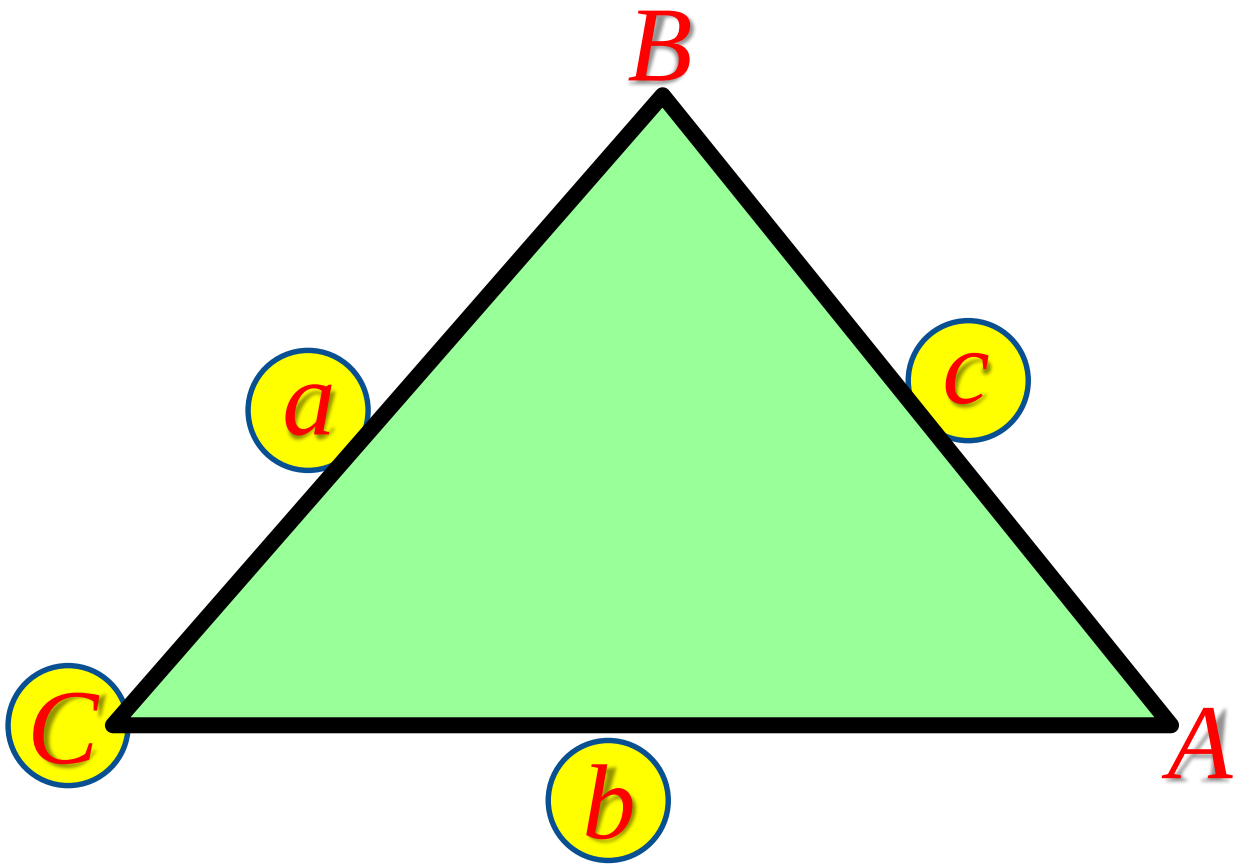
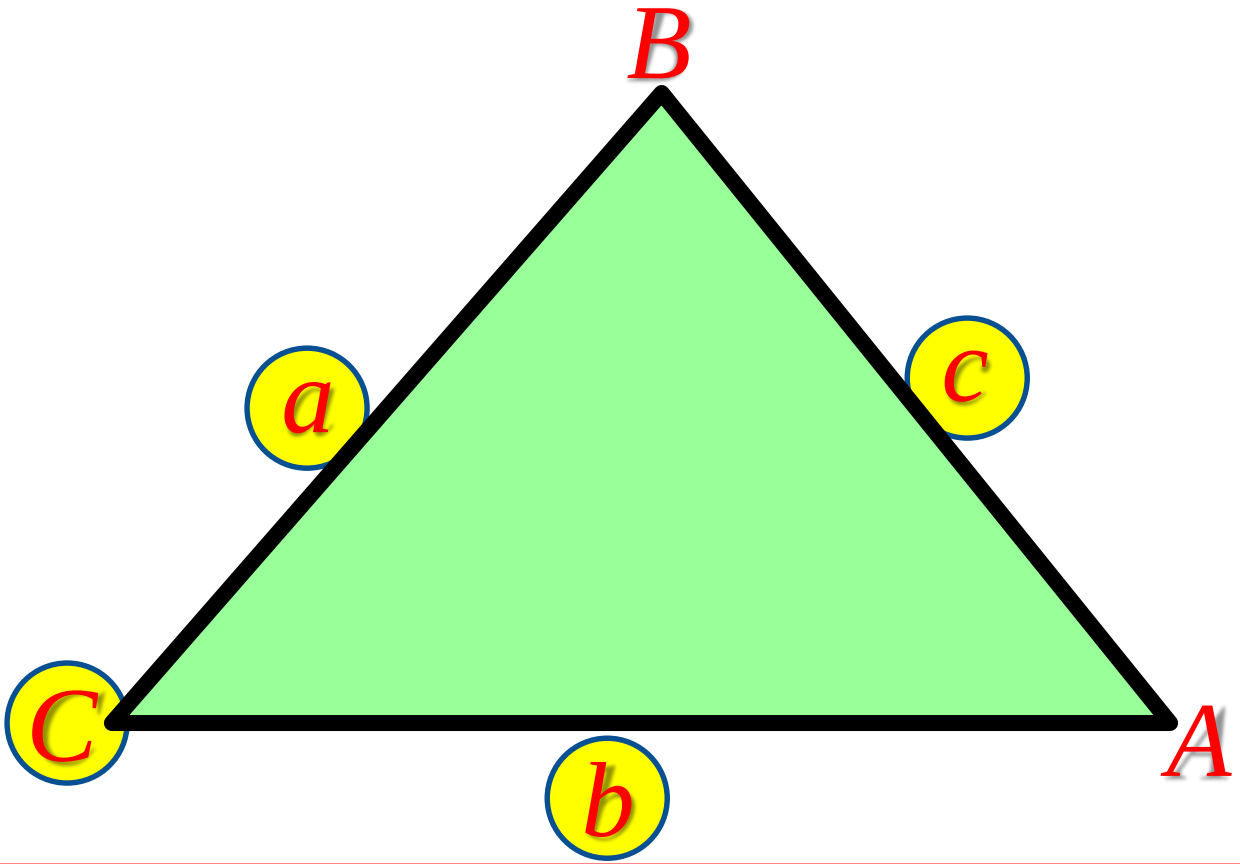
8.10

The Law of Cosines

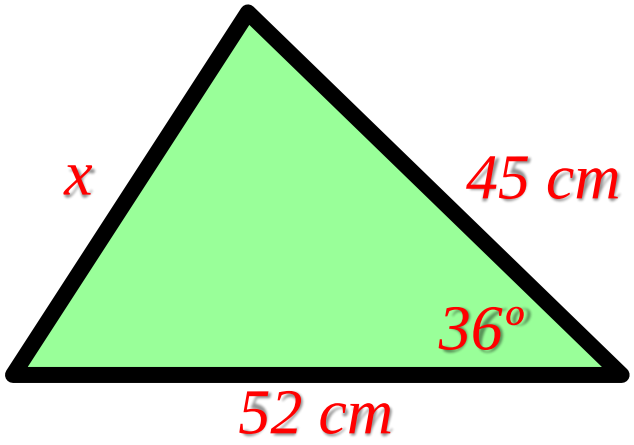



B
a
c
C
A
b

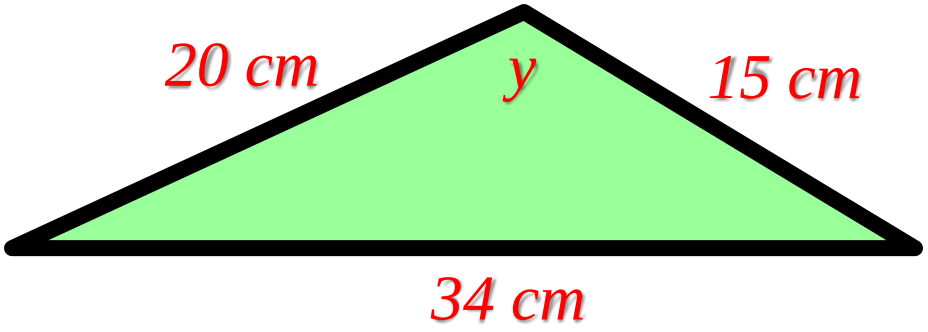
LAW OF COSINES



1) Find the indicated missing side.

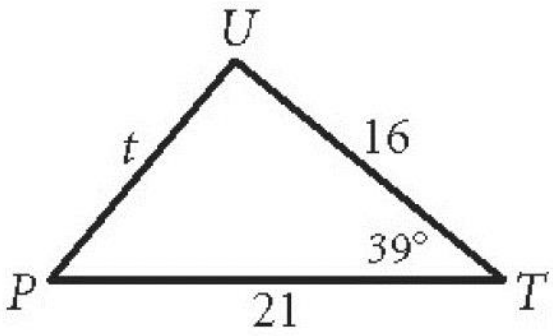


2) Find the indicated missing angle.



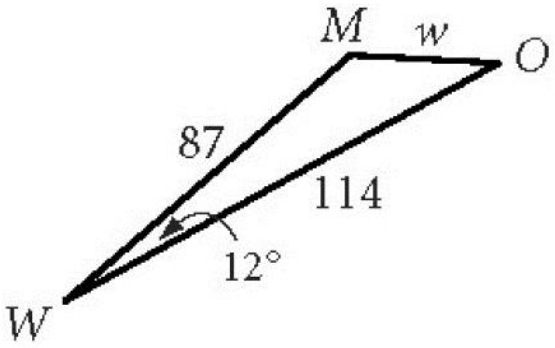
All lengths are in centimeters.

1. $t \approx$ _____



All lengths are in centimeters.

2. $w \approx$ _____

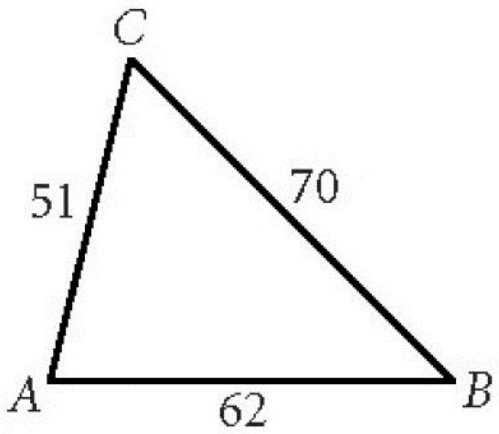


Find each angle to the nearest degree.

3. $m\angle A \approx$ _____

$m\angle B \approx$ _____

$m\angle C \approx$ _____

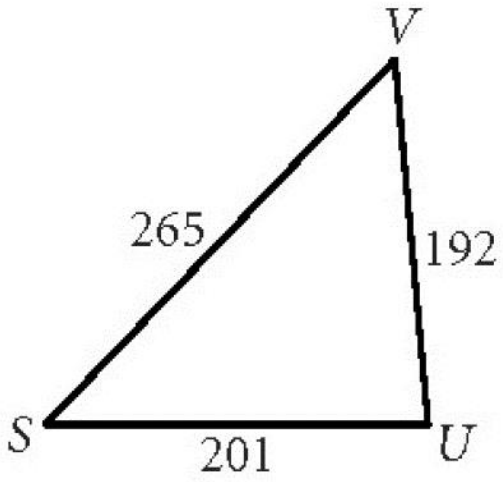


Find each angle to the nearest degree.

4. $m\angle S \approx$ _____

$m\angle U \approx$ _____

$m\angle V \approx$ _____



5) A parallelogram has side lengths 22.5 cm and 47.8 cm. One angle measures 116°. What is the length of the shorter diagonal?