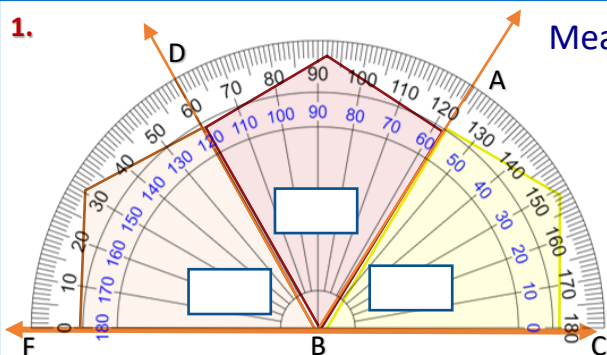


Warmup

1.



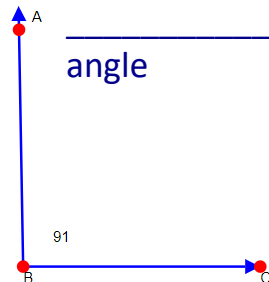
Measure and Classify each angle.

 $\angle ABC =$ _____ $\angle ABD =$ _____ $\angle DBF =$ _____

2.

 $\angle ABC$ is a(n) _____

angle



3.

Write the word for each definition:

Two or more angles whose sum is 180°

Equal in measure

An angle with a measurement of 90 degrees

An angle with a measurement of exactly 180 degrees

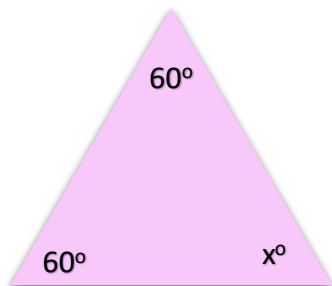
Two or more angles whose sum is 90°

A polygon with three sides

An angle with a measurement less than 90° An angle with a measurement greater than 90° and less than 180°

A simple closed figure in a plane formed by three or more line segments.

I. Angles of a Triangle

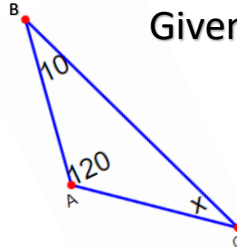
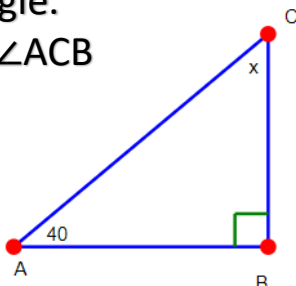


Angles of a Triangle:

The sum of the angles of a triangle is 180°

4. Triangle ABC is not drawn to scale.

Given: Triangle ABC

 $\angle A = 120$ $\angle B = 10$ Find: $\angle C$ 5. $\angle ABC$ is a right angle.Find the measure of $\angle ACB$
given that $\angle CAB = 40^\circ$ 

6-8.

I. Classifying Triangles by their angles

Acute Triangle:

A triangle with three acute angles.



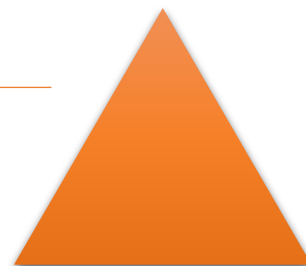
Right Triangle: A triangle with one right angle.



Obtuse Triangle: A triangle with one obtuse angle.



Classify the triangles by their angles:





9. Triangle ABC is not drawn to scale.

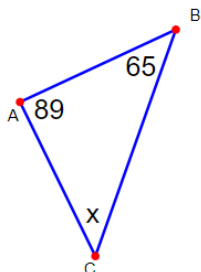
Given: Triangle ABC

$$\angle A = 89$$

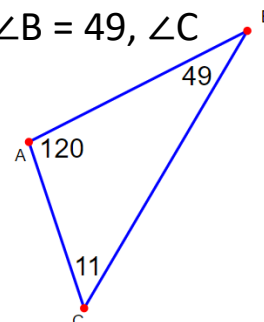
$$\angle B = 65$$

Find: $\angle C$

Classify the triangle



10. Given: Triangle ABC, $\angle B = 49$, $\angle C = 11$, and $\angle A = 120$
Classify the triangle



11-13

III. Classify Triangle by their sides

Scalene Triangle: A triangle with three sides of unequal measurement



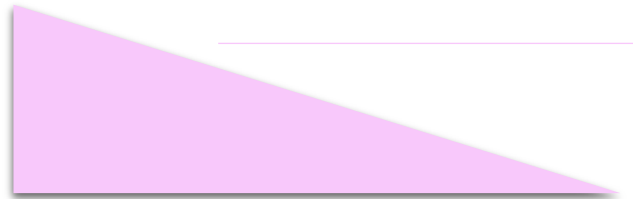
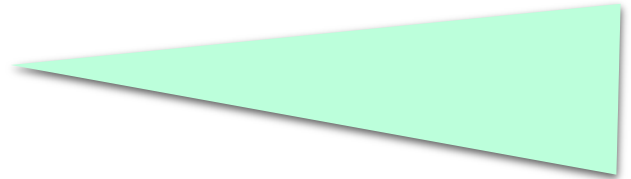
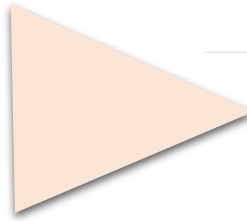
Isosceles Triangle: A triangle with two congruent sides



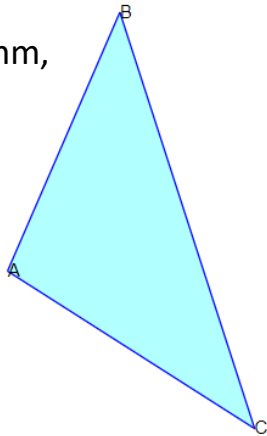
Equilateral Triangle: A triangle with (all) three congruent sides



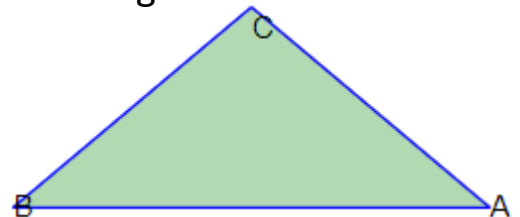
Classify the triangles by their sides:



14. Given: Triangle ABC
 $AC=5780$ mm, $BC=28615$ mm,
and $AB=4946$ mm
Classify the triangle using
the lengths of the sides.



15. Given: Triangle ABC
 $AC=5$ inches, $BC=5$ inches,
and $AB=28$ inches
Classify the triangle.



16-18

IV. Practice

19	20
21	22
23	24