

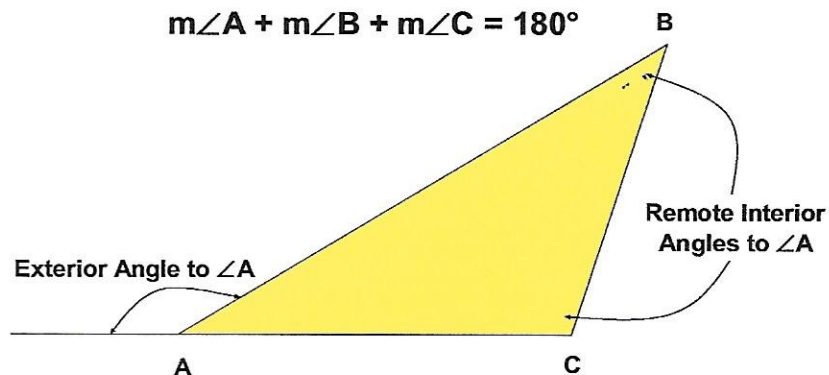
Chapter 4: Congruent Triangles
Note Day 2

Theorems:

- 1- **Angle Sum Theorem:** The sum of the measures of the angles of a triangle is 180° .
- 2- **Third Angle Theorem:** If two angles of one triangle are congruent to two angles of a second triangle, then the third angles of the triangles are congruent.
- 3- **Exterior Angle Theorem:** The measure of an exterior angle of a triangle is equal to the sum of the measures of the two remote interior angles.

Triangle's Angles

$$m\angle A + m\angle B + m\angle C = 180^\circ$$



$$m\text{Ext}\angle A = m\angle B + m\angle C \text{ -- Exterior } \angle \text{ Thrm}$$

$$m\text{Ext}\angle A + m\angle A = 180^\circ \text{ -- Linear Pair}$$