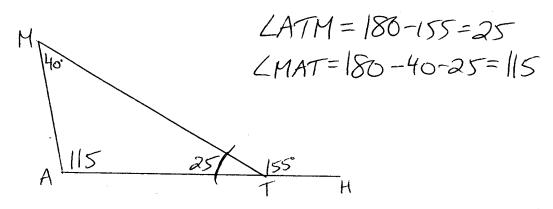
## Lesson Notes-2-2

## **Angle Properties in Triangles**

The angles in a triangle add to 180°. This is important to know when there are triangles given.

Example 1: Determine the measures of the unknown angles in triangle MAT.



Example 2: Determine the relationship between an exterior angle of a triangle and its non-adjacent interior angles.

not beside inside
$$d+c=180 \Longrightarrow c=180-d$$

$$a+b+c=180$$

$$a+b+(180-d)=180$$

$$a+b+180-d=180$$

$$-180$$
(ext) d c
$$a+b-d=0$$

$$+d+d$$

$$a+b=d$$
where the mass of the solution of the solution

Example 3: Determine the measures of the angles NMO, MNO, and QMO.

$$\frac{1}{67} = \frac{113 - 94 = 19}{47}$$

$$= \frac{113 - 94 = 19}{47}$$