

Let's study :

- Theorem of remote interior angles of a triangle
- Congruence of triangles
- Theorem of isosceles triangle
- Property of  $30^\circ$ - $60^\circ$ - $90^\circ$  triangle
- Median of a triangle
- Property of median on hypotenuse of a right angled triangle
- Perpendicular bisector theorem
- Angle bisector theorem
- Inequalities in triangle
- Similar triangles

### Read and Understand

1.



Consider  $\triangle PQR$ . Extend side  $QR$  and mark point  $S$  on it such that  $Q-R-S$ .

$\angle PRS$  forms a linear pair with one of the interior angles, i.e.  $\angle PRQ$ .

$\angle PRS$  is an exterior angle of  $\triangle PQR$  with respect to  $\angle PRQ$ .

The other two angles,  $\angle QPR$  and  $\angle PQR$  are remote interior angles.

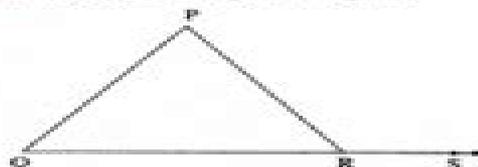
2. A triangle has six exterior angles.

### Theorem of remote interior angles of a triangle

**Theorem :** The measure of an exterior angle of a triangle is equal to the sum of its remote interior angles.

Given :  $\angle PRS$  is an exterior angle of  $\triangle PQR$ .

To prove :  $\angle PRS = \angle PQR + \angle QPR$



**Proof :** The sum of measures of all angles of a triangle is  $180^\circ$ .

$$\therefore \angle PQR + \angle QPR + \angle PRQ = 180^\circ \quad \dots (1)$$

$$\angle PRQ + \angle PRS = 180^\circ \dots (\text{Angles in a linear pair}) \dots (2)$$

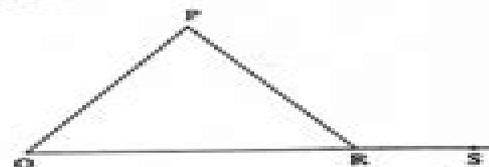
$\therefore$  from (1) and (2)

$$\angle PQR + \angle QPR + \angle PRQ = \angle PRQ + \angle PRS$$

$$\therefore \angle PQR + \angle QPR = \angle PRS$$

... (Eliminating  $\angle PRQ$  from both sides)

- Property of an exterior angle of a triangle



If  $\angle PRS$  is an exterior angle of  $\triangle PQR$ , then  $\angle PRS > \angle QPR$  and  $\angle PRS > \angle PQR$ .

$\therefore$  an exterior angle of a triangle is greater than each of its remote interior angles.

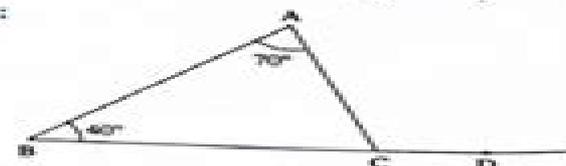
### PRACTICE SET 3.1

(Textbook pages 27 and 28)

1. In the figure,  $\angle ACD$  is an exterior angle of  $\triangle ABC$ .  $\angle B = 40^\circ$ ,  $\angle A = 70^\circ$ . Find the measure of  $\angle ACD$ .



**Solution :**



$$\angle BAC = 70^\circ; \angle ABC = 40^\circ$$

$\angle ACD$  is an exterior angle of  $\triangle ABC$

... (Given)

# 9th Rade Geometry Study Guide

**Lei Shi**



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