NALANDA V **Nalanda Vidyalaya – Colombo 10** DA VIDYALAYA

NALANDA VIDYALAY **Unit Test Project** NALANDA VIDYALAYA
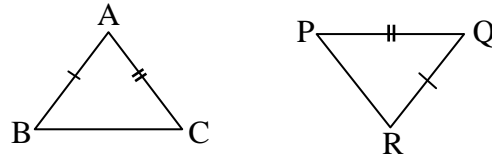
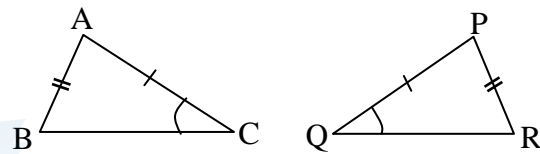| Grade 10 | Mathematics | Unit : 5 |

Congruency

01) If these triangles are congruent in SSS case.
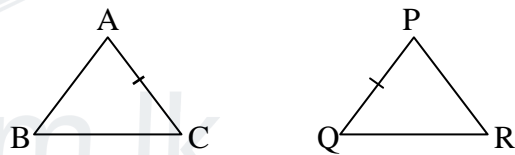What are the other sides to be equal ?

02) If these triangles are congruent in SAS case,
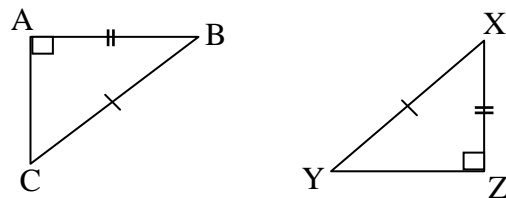What are the angles to be equal ?

03) Find the other angles to be equal.
If these triangles are congruent in case AAS.
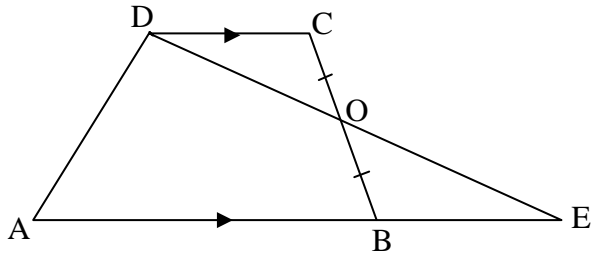

04) Show that ABC and XYZ are congruent .

05) In ABC triangle AB = AC. Bisector of BAC meets BC at X. show that BX = XC

06) BD is the diagonal of ABCD parallelogram, show that $B\hat{A}D = B\hat{C}D$

07) ABCDE is a regular pentagon. Show that $A\hat{D}E \equiv B\hat{C}D$.

08) Show that $B\hat{O}E \equiv D\hat{O}C$

09) In the ABC triangle, X is the mid point of BC and AX is joined together. Also AB = AC. Prove that $A\hat{B}C = A\hat{C}B$

10) In a circle, where O is the center, BC is a segment and X is the mid point of it. Join OX, OB and OC. Prove that $B\hat{X}A = 90^0$