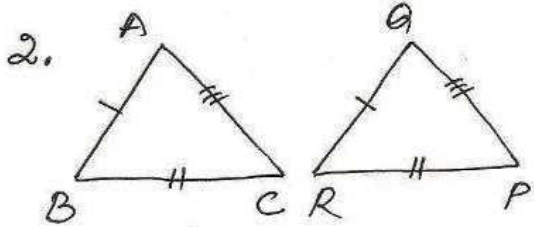


ex 7.1 exemplar 1x

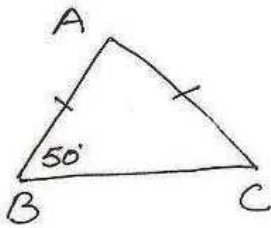
NCERT Exemplar Sols. by Dev Anoop (Bathinda)

1. (C) SSA



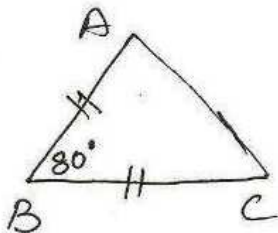
$\triangle ABC \cong \triangle QRP$   $\times$   
 $\triangle CBA \cong \triangle PRQ$  (B)

2.



In  $\triangle ABC$ ,  $AB = AC$   
 $\Rightarrow \angle C = \angle B = 50^\circ$   
 (B) [isos.  $\triangle$  prop.]

4.

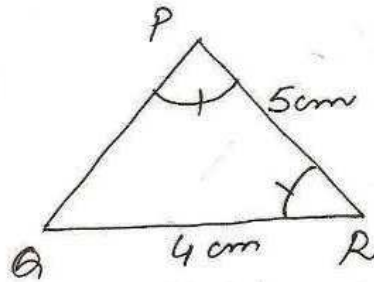


In  $\triangle ABC$   
 $AB = BC$   
 $\Rightarrow \angle C = \angle A$  (isos.  $\triangle$  prop.)

$$\begin{aligned} \angle A + \angle B + \angle C &= 180^\circ \\ \angle A + \angle A + 80 &= 180^\circ \\ \Rightarrow 2\angle A &= 100 \\ \Rightarrow \angle A &= 50^\circ \end{aligned}$$

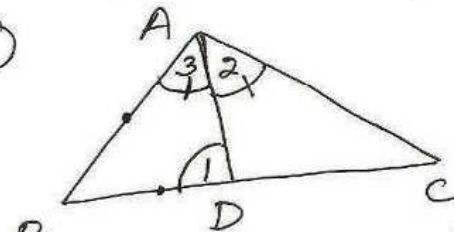
(C)

5



In  $\triangle PQR$ ,  $\angle P = \angle R$   
 $\Rightarrow QR = PQ = 4 \text{ cm}$   
 (A) [converse of isos.  $\triangle$  prop.]

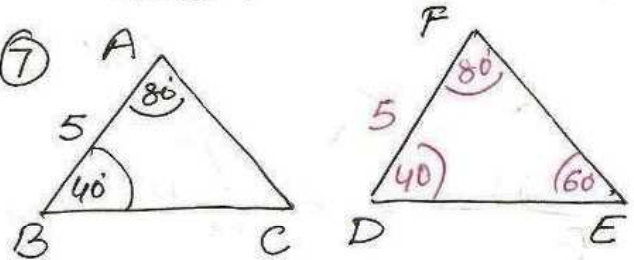
6



$\angle 1 > \angle 2$  [exterior angle > interior opp  $\angle$ .]  
 But  $\angle 2 = \angle 3$

$\angle 1 > \angle 3$   
 $AB > BD$  (B)

7



$\triangle ABC \cong \triangle FDE$

$\therefore \angle F = \angle A = 80^\circ$   
 $\angle D = \angle B = 40^\circ$  (cpet)  
 $FD = AB = 5 \text{ cm}$   
 $\angle C = 180^\circ - (\angle D + \angle F)$   
 $= 180^\circ - 120^\circ$   
 $= 60^\circ$

$DF = 5 \text{ cm}$ ,  $\angle E = 60^\circ$   
 (B)