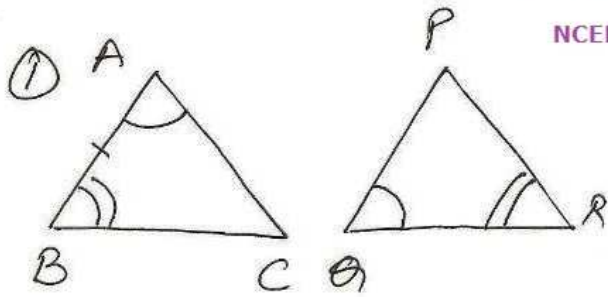


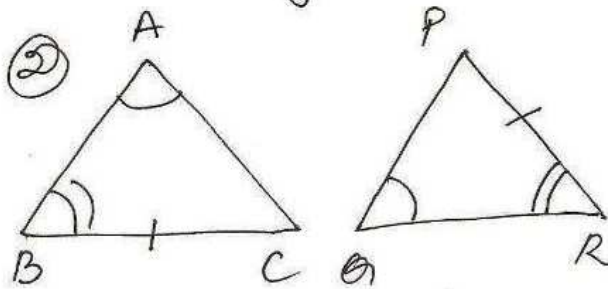
ex 7.2 exemplar ix

NCERT Exemplar Sols. by Dev Anoop (Bathinda)



$BC = QR$

$\therefore AB, QR$ are included between equal angles.



$BC = RP$

③ False
angle has to be included

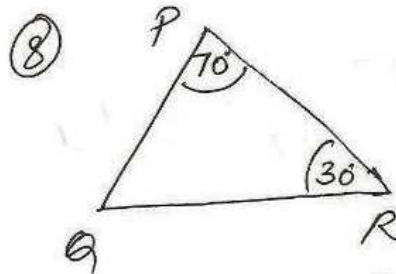
④ $3+4 \neq 7$

\therefore no
[In a Δ sum of any two sides is greater than the third side]

④ False
[corresponding sides are reqd]

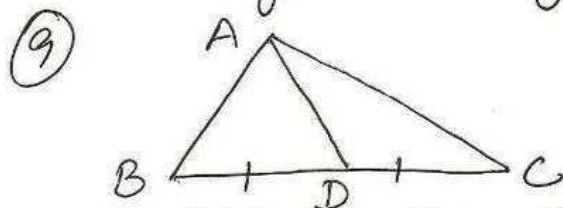
⑤ False
[$\because BC = PQ$]

⑥ True
 \therefore these are corres. sides



$$\begin{aligned} \angle Q &= 180^\circ - (\angle P + \angle R) \\ &= 180^\circ - (70 + 36) \\ &= 180^\circ - 106 \\ &= 74 \end{aligned}$$

$\therefore PR$ is longest.
[\because longest side is opp. to greatest angle]



⑨
 $AB + BD > AD$ --- (i)
 $AC + CD > AD$ --- (ii)
 (i) + (ii)
 $AB + BC + AC > 2AD$ True