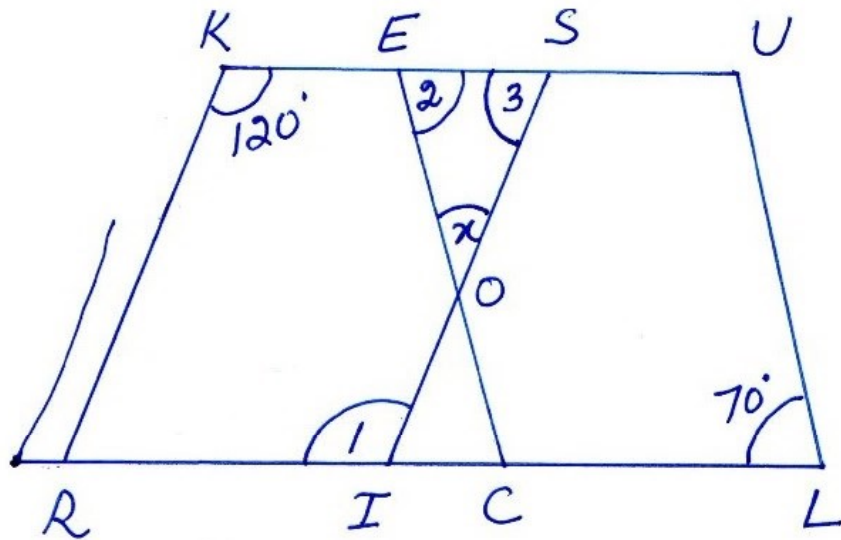


VIII - Ch 1 Rational Numbers Ex 3.3

NCERT Solutions by Dev Anoop (Bathinda)

⑨



$RI SK$ and $CLUE$ are \parallel lines

$$\angle 1 = \angle K = 120^\circ \text{ (opposite angles of)}$$

$$\angle 2 = \angle L = 70^\circ \text{ (a } \parallel \text{ line)}$$

$$\angle 1 + \angle 3 = 180^\circ \text{ (adjacent angles of a } \parallel \text{ line)}$$

$$120^\circ + \angle 3 = 180^\circ$$

$$\Rightarrow \angle 3 = 180^\circ - 120^\circ$$

$$= 60^\circ$$

In $\triangle EOS$

$$\angle 2 + \angle 3 + x = 180^\circ \text{ (angle sum prop. of } \triangle \text{)}$$

$$70^\circ + 60^\circ + x = 180^\circ$$

$$\Rightarrow x = 180 - 130$$

$$= 50^\circ$$