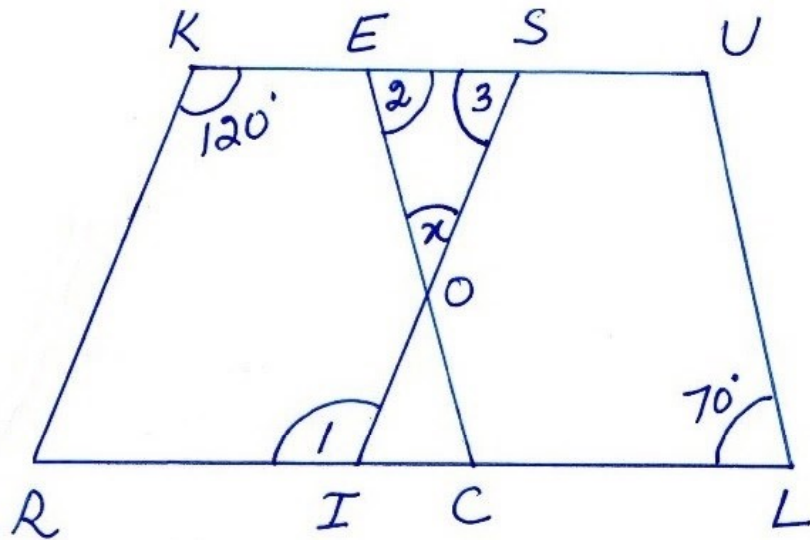


VIII - Ch 1 Rational Numbers Ex 3.3

NCERT Solutions by Dev Anoop (Bathinda)

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$RISK$ and $CLUE$ are \parallel lines

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

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

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

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

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

$$= 60^\circ$$

In $\triangle EOS$

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

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

$$\Rightarrow x = 180 - 130$$

$$= 50^\circ$$