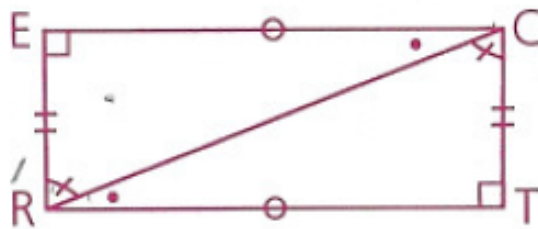


# Homework

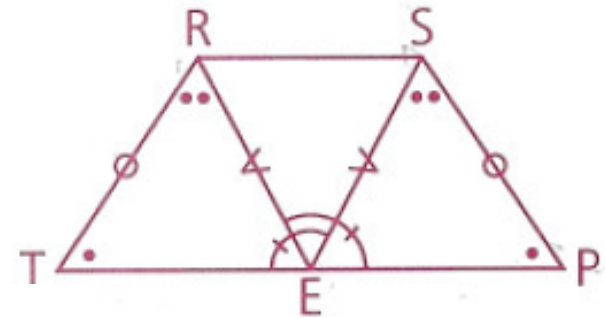
p.114: 1-5

In problems 1–3, indicate which triangles are congruent. Be sure to have the correspondence of letters correct.

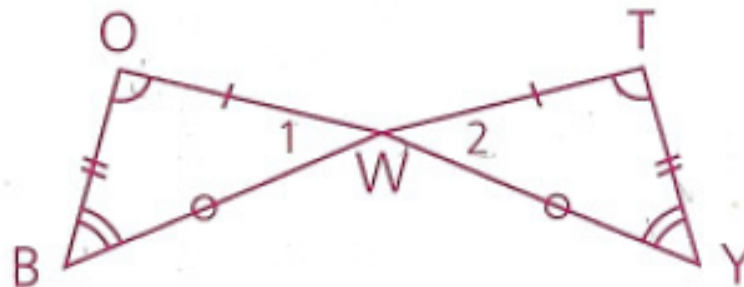
- 1  $\triangle ERC \cong$  ?  
Why is  $\overline{RC} \cong \overline{RC}$ ?



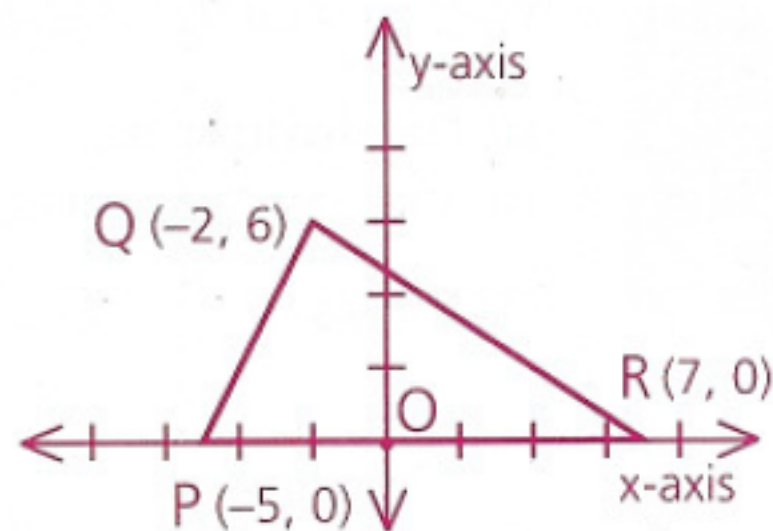
- 2 E is the midpt. of  $\overline{TP}$ .  
 $\triangle SPE \cong$  ?



- 3  $\triangle BOW \cong$  ?  
Why is  $\angle 1 \cong \angle 2$ ?



- 4 a** Copy  $\triangle PQR$ . Draw its reflection over the x-axis and give the coordinates of the vertices.
- b** Copy  $\triangle PQR$ . Draw its reflection over the y-axis and give the coordinates of the vertices.
- c** Copy  $\triangle PQR$ . Slide it 3 units to the left and give the coordinates of the vertices.



- 5 a** Draw the rotation of  $\triangle PQR$   $180^\circ$  clockwise about O. Label its vertices with their coordinates.
- b** Draw the slide of  $\triangle PQR$  along ray  $\overrightarrow{PR}$  so that P is at O, and label its vertices with their coordinates.
- c** Draw the reflection of  $\triangle PQR$  over the y-axis and label its vertices with their coordinates.