

Homework

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

1 Why is $\overline{RC} \cong \overline{RC}$?

Reflexive Prop.

$\triangle ERC \cong \triangle ERC$

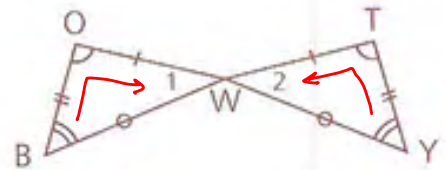
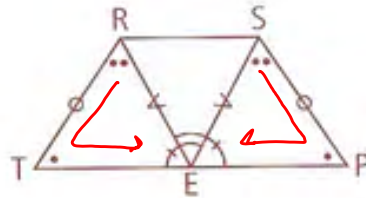
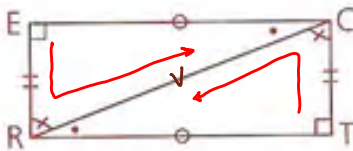
2 E is the midpt. of \overline{TP} .

$\triangle SPE \cong \triangle PTE$

3 Why is $\angle 1 \cong \angle 2$?

Vert \angle s \cong

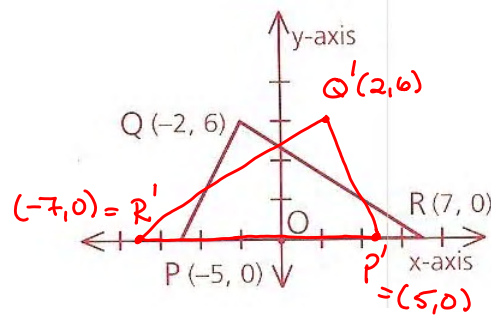
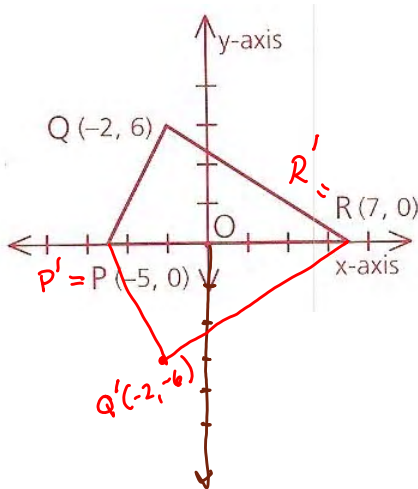
$\triangle BOW \cong \triangle YTW$



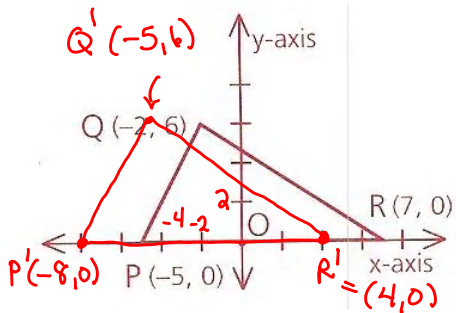
In problems 4 and 5, use the "prime" notation, that is P (x_1, y_1) once transformed is noted as P' (x_2, y_2).

4 a Copy $\triangle PQR$. Draw its reflection over the x-axis and give the coordinates of the vertices.

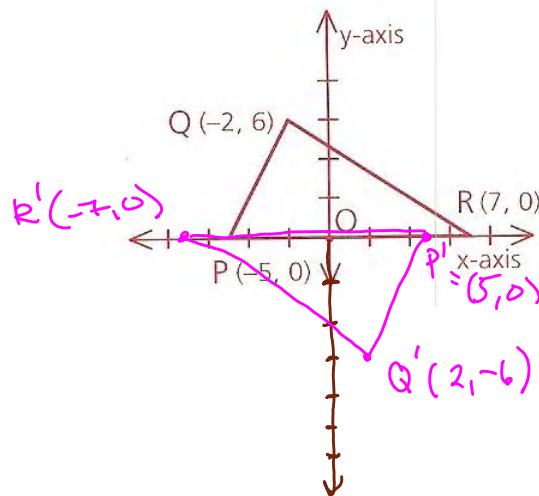
b Copy $\triangle PQR$. Draw its reflection over the y-axis and give the coordinates of the vertices.



- c Copy $\triangle PQR$. Slide it 3 units to the left and give the coordinates of the vertices. *add "-3" to all x values*

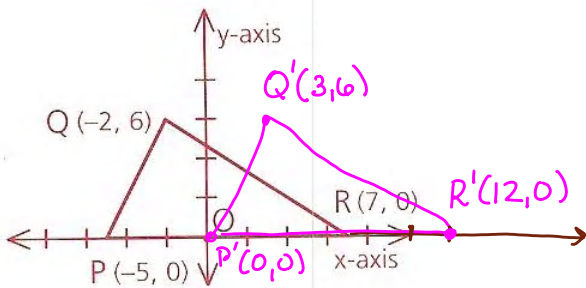


- 5 a Draw the rotation of $\triangle PQR$ 180° clockwise about O. Label its vertices with their coordinates.



- b Draw the slide of $\triangle PQR$ along ray \overrightarrow{PR} so that P is at O, and label its vertices with their coordinates.

5 units right: add 5 to all x's



- c Draw the reflection of $\triangle PQR$ over the y-axis and label its vertices with their coordinates.

change signs on x's

