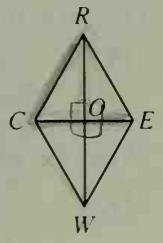
Written Exercises

Exercises 1–4 refer to $\square CREW$.



A **1.** If $OE = 4$ and $WE = 8$, name two segments congruent to $\overline{WE}$.

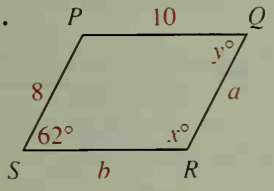
2. If $\overline{WR} \perp \overline{CE}$, name all angles congruent to $\angle RCE$.

3. If $\overline{WR} \perp \overline{CE}$, name all segments congruent to $\overline{WE}$.

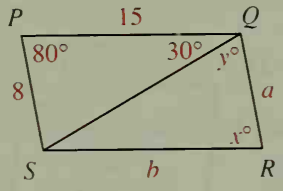
4. If $RE = EW$, name all angles congruent to $\angle ERW$.

In Exercises 5–10 quad. *PQRS* is a parallelogram. Find the values of *a*, *b*, *x*, and *y*.

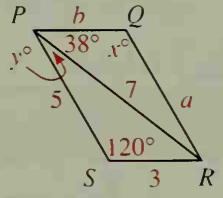
5.



6.



7.



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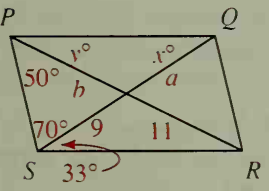
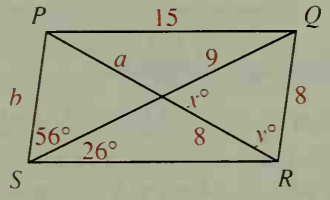
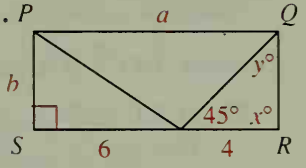


9.



10.



11. Find the perimeter of $\square RISK$ if $RI = 17$ and $IS = 13$.

12. The perimeter of $\square STOP$ is 54 cm, and $\overline{ST}$ is 1 cm longer than $\overline{SP}$. Find ST and SP.

13. Prove Theorem 5-1.

14. Prove Theorem 5-2. (Draw and label a diagram. List what is given and what is to be proved.)

15. Prove Theorem 5-3.

16. Given: $ABCX$ is a $\square$;
$DXFE$ is a $\square$.
Prove: $\angle B \cong \angle E$