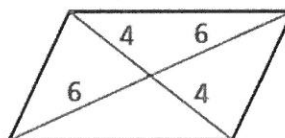
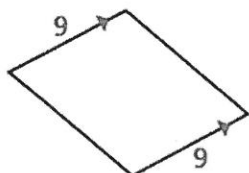
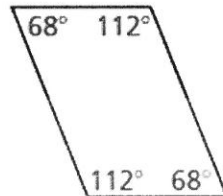
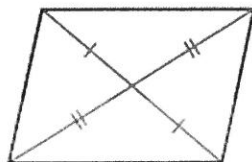
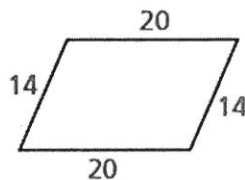
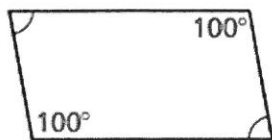


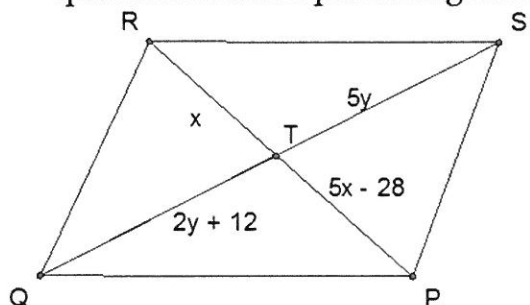
Name: _____

7.3 Practice Problems

1. State the theorem (or describe how you know) that proves each quadrilateral is a parallelogram.



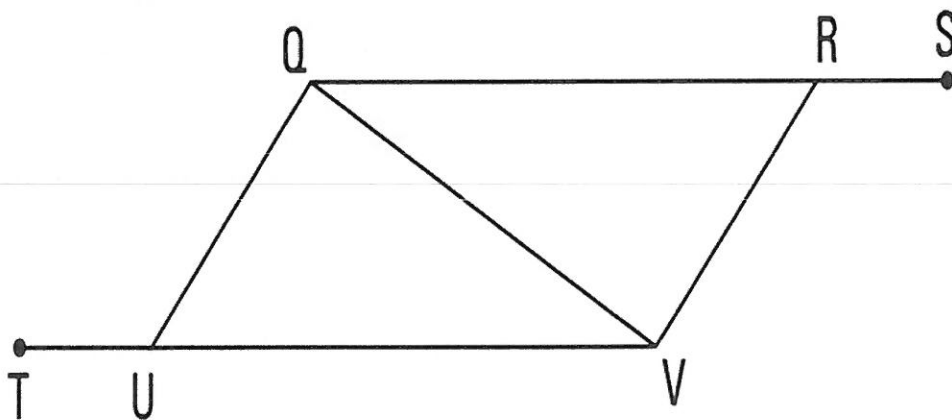
2. Find the values of x and y that ensures each quadrilateral is a parallelogram.



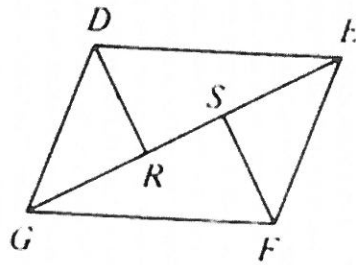
3. Given: $\angle UQV \cong \angle RVQ$

$\angle TUQ \cong \angle SRV$

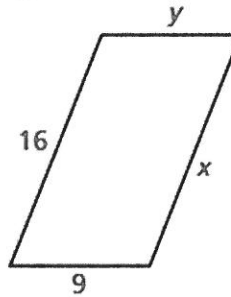
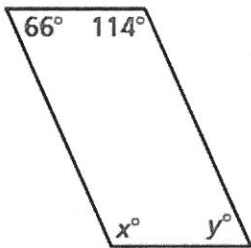
Prove: $QRVU$ is a parallelogram



4. Given: $DEFG$ is a \square ;
 $\overline{DR} \perp \overline{GE}$;
 $\overline{FS} \perp \overline{GE}$
 Prove: $\overline{DR} \cong \overline{FS}$



5. Find x and y that proves each quadrilateral is a parallelogram.



6. Prove that the following coordinates are the vertices of a parallelogram.

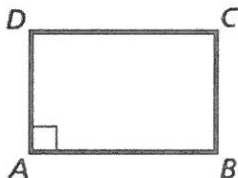
a) $J(-2, 3)$, $K(-5, 7)$, $L(3, 6)$, $M(6, 2)$

b) $N(-5, 0)$, $P(0, 4)$, $Q(3, 0)$, $R(-2, -4)$

7. **PROOF** Write a proof.

Given $ABCD$ is a parallelogram.
 $\angle A$ is a right angle.

Prove $\angle B$, $\angle C$, and $\angle D$ are right angles.



8. **Given** : $NRSM$ is a parallelogram
 $\angle 4 \cong \angle 5$

Prove : $ERAM$ is a parallelogram

