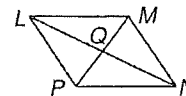


8-2 Practice

Parallelograms

Complete each statement about $\square LMNP$. Justify your answer.



1. $\overline{LQ} \cong$?

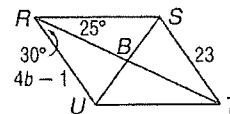
2. $\angle LMN \cong$?

3. $\triangle LMP \cong$?

4. $\angle NPL$ is supplementary to ?

5. $\overline{LM} \cong$?

ALGEBRA Use $\square RSTU$ to find each measure or value.



6. $m\angle RST =$ _____

7. $m\angle STU =$ _____

8. $m\angle TUR =$ _____

9. $b =$ _____

COORDINATE GEOMETRY Find the coordinates of the intersection of the diagonals of parallelogram $PRYZ$ given each set of vertices.

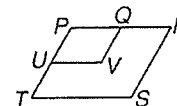
10. $P(2, 5), R(3, 3), Y(-2, -3), Z(-3, -1)$

11. $P(2, 3), R(1, -2), Y(-5, -7), Z(-4, -2)$

12. PROOF Write a paragraph proof of the following.

Given: $\square PRST$ and $\square PQVU$

Prove: $\angle V \cong \angle S$



13. CONSTRUCTION Mr. Rodriguez used the parallelogram at the right to design a herringbone pattern for a paving stone. He will use the paving stone for a sidewalk. If $m\angle 1$ is 130, find $m\angle 2$, $m\angle 3$, and $m\angle 4$.

