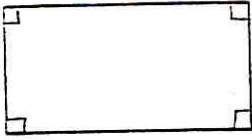


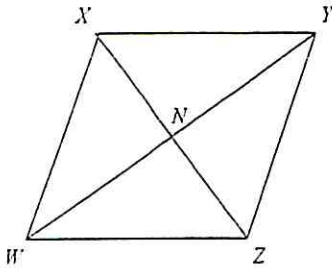
Chapter 6 Geometry Final Review

- Which statement is true?
 - All parallelograms are rectangles.
 - All rectangles are squares.
 - All parallelograms are quadrilaterals.
 - All quadrilaterals are parallelograms.
- Judging by appearance, classify the figure in as many ways as possible.

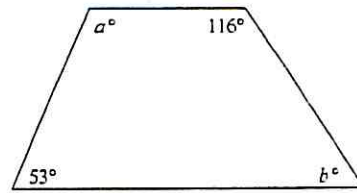


- Based on the information given, can you determine that the quadrilateral must be a parallelogram? Explain.

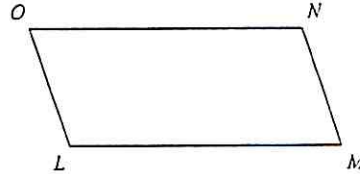
Given: $\overline{XN} \cong \overline{NZ}$ and $\overline{NY} \cong \overline{NW}$



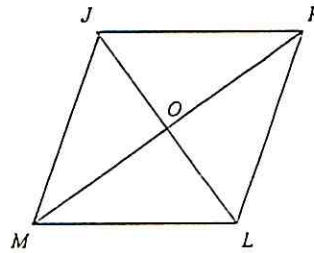
- Find the values of a and b . The diagram is not to scale.



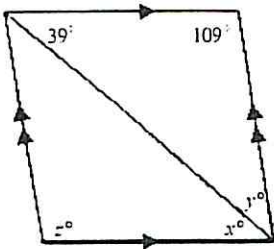
- $LMNO$ is a parallelogram. If $NM = x + 22$ and $OL = 4x + 4$ find the value of x and then find NM and OL .



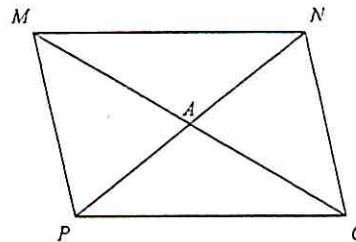
- In the parallelogram, $m\angle KLO = 65$ and $m\angle MLO = 56$. Find $\angle KJM$. The diagram is not to scale.



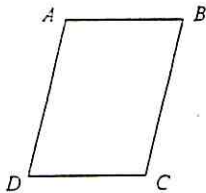
- Find the values of the variables in the parallelogram. The diagram is not to scale.



- Find AM in the parallelogram if $PN = 10$ and $AO = 6$. The diagram is not to scale.



- If $m\angle B = m\angle D = 39$, find $m\angle C$ so that quadrilateral $ABCD$ is a parallelogram. The diagram is not to scale.



- The isosceles trapezoid is part of an isosceles triangle with a 32° vertex angle. What is the measure of an acute base angle of the trapezoid? Of an obtuse base angle? The diagram is not to scale.

