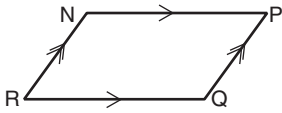
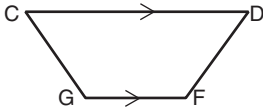


**LESSON**

**Challenge**

**3-5** *Using Slope to Identify Quadrilaterals*

| Quadrilateral | Properties                                      | Models   |
|---------------|---|--|
| parallelogram | Both pairs of opposite sides are parallel.      |  |
| trapezoid     | Exactly one pair of opposite sides is parallel. |  |

Determine whether each quadrilateral with the given vertices is a parallelogram, a trapezoid, or neither. Explain your reasoning.

1.  $A(-9, -1)$ ,  $B(-5, 2)$ ,  $C(6, 2)$ ,  $D(-10, -10)$

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2.  $R(-14, 8)$ ,  $S(11, -7)$ ,  $T(2, 11)$ ,  $V(0, 7)$

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3.  $J(4, 4)$ ,  $K(2, 1)$ ,  $L(-3, 2)$ ,  $M(-1, 5)$

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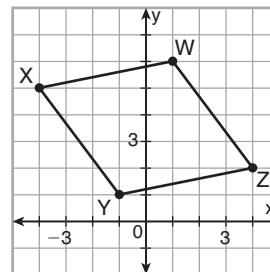


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4. If a quadrilateral is a parallelogram and the diagonals are perpendicular, then the figure is a rhombus. Determine whether quadrilateral  $WXYZ$  is a rhombus. Explain.




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