

LESSON
Reteach
6-3 Conditions for Parallelograms

You can use the following conditions to determine whether a quadrilateral such as $PQRS$ is a parallelogram.


Conditions for Parallelograms


$$\overline{QR} \parallel \overline{PS}$$

$$\overline{PQ} \parallel \overline{RS}$$

If one pair of opposite sides is \parallel and \cong , then $PQRS$ is a parallelogram.



$$\overline{QR} \cong \overline{PS}$$

$$\overline{PQ} \cong \overline{RS}$$

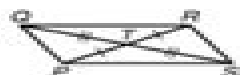
If both pairs of opposite sides are \cong , then $PQRS$ is a parallelogram.



$$\angle P \cong \angle R$$

$$\angle Q \cong \angle S$$

If both pairs of opposite angles are \cong , then $PQRS$ is a parallelogram.



$$\overline{PT} \cong \overline{RT}$$

$$\overline{QT} \cong \overline{ST}$$

If the diagonals bisect each other, then $PQRS$ is a parallelogram.

A quadrilateral is also a parallelogram if one of the angles is supplementary to both of its consecutive angles.

$65^\circ + 115^\circ = 180^\circ$, so $\angle A$ is supplementary to $\angle B$ and $\angle D$.

Therefore, $ABCD$ is a parallelogram.



Show that each quadrilateral is a parallelogram for the given values. Explain.

1. Given: $x = 9$ and $y = 4$



2. Given: $w = 3$ and $z = 31$



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