

6.2

Properties of Parallelograms

What you should learn

GOAL 1 Use some properties of parallelograms.

GOAL 2 Use properties of parallelograms in real-life situations, such as the drafting table shown in Example 6.

Why you should learn it

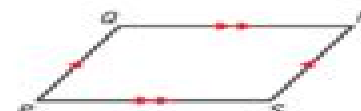
▼ You can use properties of parallelograms to understand how a scissors lift works in Exs. 51–54.



GOAL 1 PROPERTIES OF PARALLELOGRAMS

In this lesson and in the rest of the chapter you will study special quadrilaterals. A **parallelogram** is a quadrilateral with both pairs of opposite sides parallel.

When you mark diagrams of quadrilaterals, use matching arrowheads to indicate which sides are parallel. For example, in the diagram at the right, $\overline{PQ} \parallel \overline{RS}$ and $\overline{QR} \parallel \overline{SP}$. The symbol $\square PQRS$ is read “parallelogram $PQRS$.”



THEOREMS ABOUT PARALLELOGRAMS

THEOREM 6.2

If a quadrilateral is a parallelogram, then its **opposite sides** are congruent.

$$\overline{PQ} \cong \overline{RS} \text{ and } \overline{SP} \cong \overline{QR}$$



THEOREM 6.3

If a quadrilateral is a parallelogram, then its **opposite angles** are congruent.

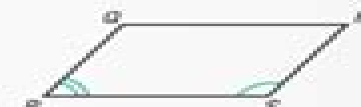
$$\angle P \cong \angle R \text{ and } \angle Q \cong \angle S$$



THEOREM 6.4

If a quadrilateral is a parallelogram, then its **consecutive angles** are supplementary.

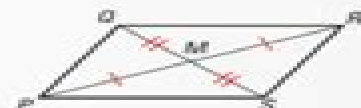
$$\begin{aligned} m\angle P + m\angle Q &= 180^\circ, & m\angle Q + m\angle R &= 180^\circ, \\ m\angle R + m\angle S &= 180^\circ, & m\angle S + m\angle P &= 180^\circ \end{aligned}$$



THEOREM 6.5

If a quadrilateral is a parallelogram, then its **diagonals bisect each other**.

$$\overline{QM} \cong \overline{SM} \text{ and } \overline{PM} \cong \overline{RM}$$



Theorem 6.2 is proved in Example 5. You are asked to prove Theorem 6.3, Theorem 6.4, and Theorem 6.5 in Exercises 38–44.

Lesson 5 5 Geometry Answers Properties Of Parallelograms

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