

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			
	$\overline{QR} \parallel \overline{SP}$ $\overline{QR} \cong \overline{SP}$		$\overline{QR} \cong \overline{SP}$ $\overline{PQ} \cong \overline{RS}$
<p>If one pair of opposite sides is \parallel and \cong, then $PQRS$ is a parallelogram.</p>	<p>If both pairs of opposite sides are \cong, then $PQRS$ is a parallelogram.</p>		$\angle P \cong \angle R$ $\angle Q \cong \angle S$
<p>If both pairs of opposite angles are \cong, then $PQRS$ is a parallelogram.</p>	<p>If the diagonals bisect each other, then $PQRS$ is a parallelogram.</p>		$\overline{PT} \cong \overline{RT}$ $\overline{QT} \cong \overline{ST}$

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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discussed As a result many students misuse and otherwise do not understand the role of definition in mathematics We have chosen in this monograph to examine a bit of mathematics for its definitions the quadrilaterals We do so because there is some disagreement in the definitions and consequently in the ways in which quadrilaterals are classified and relate to each other The issues underlying these differences have engaged students teachers mathematics educators and mathematicians There have been several articles and a number of essays on the definitions and classification of quadrilaterals But primarily we chose this specific area of definition in mathematics because it demonstrates how broad mathematical issues revolving around definitions become reflected in curricular materials While we were undertaking this research we found that the area of quadrilaterals supplied grist for broader and richer discussions than we had first anticipated The intended audience includes curriculum developers researchers teachers teacher trainers and anyone interested in language and its use

Treks into Intuitive Geometry Jin Akiyama,Kiyoko Matsunaga,2024-05-21 This book is written in a style that uncovers the mathematical theories hidden in our daily lives using examples of patterns that appear in nature arts traditional crafts as well as mathematical mechanics in architectural techniques The authors believe that through conversations between students and mathematicians readers may learn about the methods used by the originators of these theories their trials errors and triumphs in reaching their various conclusions The goal is to help readers refine their mathematical sense in terms of formulating valuable questions and pursuing them In addition the book aims to provide enjoyment in the application of mathematical principles to beautiful art and design by using examples that highlight the wonders and mysteries of these works found in our daily lives To achieve these goals the book tackles the latest exquisite results on polygons and polyhedra and the dynamic history of geometric research found around us The term intuitive geometry was coined by L szlo Fejes T th and refers to the kind of geometry which in Hilbert s words can be explained to and appeal to the man on the street This book enables readers to enjoy intuitive geometry informally and instinctively It does not require more than a high school level of knowledge but calls for a sense of wonder intuition and mathematical maturity In this second edition many new results and elegant proofs on a variety of topics have been added enhancing the book s rich content even further

The Theory and Practice of Modern Framed Structures John Butler Johnson,Charles Walter Bryan,Frederick Eugene Turneare,1899

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The Educational Times ,1874 *New York Teachers' Monographs* ,1918 **The Bookseller and the Stationery**
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bonds an enolate anion is formed starting aldol condensation the enolate anion comes from an aldehyde or a ketone enolizable aldehydes and ketones undergo a reaction when either an acid or base catalyst is present

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