LESSON Reteach

Conditions for Parallelograms

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



Conditions for Parallelograms



$$QR = SP$$

 $PQ = RS$

If one pair of opposite sides is | and =, then PQRS is a parallelogram. If both pairs of opposite sides are ≥. then PQRS is a parallelogram.



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

 $\angle Q \cong \angle S$



$$PT = RT$$
 $QT = ST$

If both pairs of opposite angles are ==. then PQRS is a parallelogram.

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.

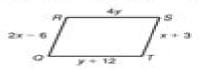
65° + 115° = 180°, so ∠A is supplementary to ∠B and ∠D.

Therefore, ABCD is a parallelogram.



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

1. Given: x = 9 and y = 4



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 Turneaure, 1899 Teachers' Monographs, 1917 **Problem-Solving Strategies** Arthur Engel, 2008-01-19 A unique collection of competition problems from over twenty major national and international mathematical competitions for high school students Written for trainers and participants of contests of all levels up to the highest level this will appeal to high school teachers conducting a mathematics club who need a range of simple to complex problems and to those instructors wishing to pose a

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but some merely point to the road leading to the final solution In addition to being a valuable resource of mathematical problems and solution strategies this is the most complete training book on the market **Eureka Math Grade 7 Study** Guide Great Minds, 2016-04-25 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 7 provides an overview of all of the Grade 7 modules including Ratios and Proportional Relationships Rational Numbers Expressions and Equations Percent and Proportional Relationships Statistics and Probability Geometry **Prentice Hall Informal Geometry** Philip L. Cox,1992 The Educational Times ,1874 New York Teachers' Monographs, 1918 The Bookseller and the Stationery

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The English Cyclopædia ,1861

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