

Geometry Notes

6-3 Conditions for Parallelograms

In Section 6-2, we looked at the definition of a parallelogram and special properties of parallelograms. In this section, we will work backwards. Given a quadrilateral, how do we know whether or not it is a parallelogram? There are several ways to tell.

Conditions for Parallelograms

A quadrilateral is a parallelogram if:

- 1) **Both** pairs of opposite sides are **parallel** (remember this is the definition.)
- 2) **Both** pairs of opposite **sides** are **congruent**.
- 3) **Both** pairs of opposite **angles** are **congruent**.
- 4) **One** pair of opposite **sides** is both **parallel AND congruent**.
- 5) An angle is **supplementary to both of its consecutive angles**.
- 6) **Both diagonals bisect each other**.

Ex. 1: Determine if each of the following must be a parallelogram. If so, give the reason.

a)



Yes, one pair of sides parallel and $\cong$

b)



Yes, one angle is supp. to both consecutive angles

c)



No

d)



Technically, yes. You can show that the parallel sides are $\cong$ by ASA.

Practice A Conditions For Parallelograms

**National Research Council, Division on
Earth and Life Studies, Board on Earth
Sciences and Resources, Geographical
Sciences Committee, Committee on
Support for Thinking Spatially: The
Incorporation of Geographic
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Curriculum**

Practice A Conditions For Parallelograms:

Number, Shape, & Symmetry Diane L. Herrmann, Paul J. Sally, Jr., 2012-10-18 Through a careful treatment of number theory and geometry Number Shape Symmetry An Introduction to Number Theory Geometry and Group Theory helps readers understand serious mathematical ideas and proofs Classroom tested the book draws on the authors successful work with undergraduate students at the University of Chicago seventh to tenth grade mathematically talented students in the University of Chicago s Young Scholars Program and elementary public school teachers in the Seminars for Endorsement in Science and Mathematics Education SESAME The first half of the book focuses on number theory beginning with the rules of arithmetic axioms for the integers The authors then present all the basic ideas and applications of divisibility primes and modular arithmetic They also introduce the abstract notion of a group and include numerous examples The final topics on number theory consist of rational numbers real numbers and ideas about infinity Moving on to geometry the text covers polygons and polyhedra including the construction of regular polygons and regular polyhedra It studies tessellation by looking at patterns in the plane especially those made by regular polygons or sets of regular polygons The text also determines the symmetry groups of these figures and patterns demonstrating how groups arise in both geometry and number theory The book is suitable for pre service or in service training for elementary school teachers general education

mathematics or math for liberal arts undergraduate level courses and enrichment activities for high school students or math clubs

Recent Advances in Mathematics Textbook Research and Development Chunxia Qi, Lianghuo Fan, Jian Liu, Qimeng Liu, Lianchun Dong, 2024-11-08 This open access book documents the issues and developments in mathematics textbook research as presented at the Fourth International Conference on Mathematics Textbook Research and Development ICMT 4 held at Beijing Normal University China in November 2022 It showcases research and practical experiences from the mathematics textbook research field from over 20 countries and reflects the current trend of curriculum reform globally in terms of mathematics textbook research It helps readers gain knowledge about various issues related to the development content and use of mathematics textbooks from kindergarten to university level in and out of school settings in paper or digital format as well as the historical and recent developments and future directions in mathematics textbook research ICMT 4 continues the successful series started in 2014 with the first ICMT held in Southampton UK which was followed in 2017 by ICMT 2 in Rio de Janeiro Brazil and in 2019 by ICMT 3 in Paderborn Germany

Eureka Math Grade 7 Study Guide Great Minds, 2016-04-20 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

Marx's Capital, Capitalism and Limits to the State

Raju J Das,2022-06-01 Marx's Capital Capitalism and Limits to the State examines the capitalist state in the abstract and as it exists in advanced capitalism and peripheral capitalism illustrating the ideas with evidence from the North and the South The volume unpacks the capitalist state's functions in relation to commodity relations private property and the crisis ridden production of surplus value as a part of the capital circuit M C M It also examines state's political and geographical forms It argues that no matter how autonomous it is the state cannot meet the pressing needs of the masses significantly and sustainably This is not because of so called capitalist constraints but because the state is inherently capitalist Each chapter begins with Capital volume 1 And each chapter ends with theoretical practical implications of the ideas which taken together counter existing state theory's focus on state autonomy and reforms and point to the necessity for the masses to establish a new transitional democratic state But the book goes beyond Marx too as it deploys the combined Marxism of 19th and 20th centuries Marx's Capital Capitalism and Limits to the State will interest scholars researching state society economy relations It is suitable for university students as well as established scholars in sociology political science heterodox economics human geography and international development

The ACT For Dummies

Michelle Rose Gilman,Veronica Saydak,Suzee Vlk,2006-02-10 Boost your test taking skills and beat the clock Prepare for the ACT quickly and painlessly and maximize yourscore Are you one of the millions of students taking the ACT Have nofear This friendly guide gives you the competitive edge by fullypreparing you for every section of the ACT including the optionalwriting test You get two complete practice tests plus samplequestions all updated along with proven test takingstrategies to improve your score Discover how to Study for each section Stay focused during the test Manage your time wisely Make smart guesses Spot test traps and tricks

The Electrical World and Engineer ,1900 *The Condition and Treatment of the Children Employed in the Mines and Colliers of the United Kingdom. Carefully Compiled from the Appendix to the First Report of the Commissioners ... With Copious*

Extracts from the Evidence, and Illustrative Engravings. [The Preface Signed: W.C.] Great Britain. Commissioners for Inquiring into the Employment and Condition of Children in Mines and Manufactories,1842 Gas World ,1928

Mathematics Education Jacqueline Dewar,Pao-sheng Hsu,Harriet Pollatsek,2016-11-26 Many in the mathematics community in the U S are involved in mathematics education in various capacities This book highlights the breadth of the work in K 16 mathematics education done by members of US departments of mathematical sciences It contains contributions by mathematicians and mathematics educators who do work in areas such as teacher education quantitative literacy informal education writing and communication social justice outreach and mentoring tactile learning art and mathematics ethnomathematics scholarship of teaching and learning and mathematics education research Contributors describe their work its impact and how it is perceived and valued In addition there is a chapter co authored by two mathematicians who have become administrators on the challenges of supporting evaluating and rewarding work in mathematics education in departments of mathematical sciences This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community The writing is expository not technical and should be accessible and informative to a diverse audience The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities and their administrators as well as graduate students Researchers in education may also find topics of interest Other potential readers include those doing work in mathematics education in schools of education and teachers of secondary or middle school mathematics as well as those involved in their professional development Learning to Think Spatially National Research Council,Division on Earth and Life Studies,Board on Earth Sciences and Resources,Geographical Sciences Committee,Committee on Support for Thinking Spatially: The Incorporation of Geographic Information Science Across the K-12 Curriculum,2005-01-03 Learning to Think Spatially examines how spatial thinking might be incorporated into existing standards based instruction across the school curriculum Spatial thinking must be recognized as a fundamental part of K 12 education and as an integrator and a facilitator for problem solving across the curriculum With advances in computing technologies and the increasing availability of geospatial data spatial thinking will play a significant role in the information based economy of the twenty first century Using appropriately designed support systems tailored to the K 12 context spatial thinking can be taught formally to all students A geographic information system GIS offers one example of a high technology support system that can enable students and teachers to practice and apply spatial thinking in many areas of the curriculum

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Benzinmotor ... Jun 30, 2017 — ... M264 ; Mercedes-Benz four-Cylinder engine, M264;; Orientation - Horizontal (normal); Artist - Daimler AG - Global Communications Mercedes-Benz ... M-B's 2019 C-class sedan to get new M264 engine Feb 19, 2018 — Mercedes-Benz's 2019 C-class sedan will get the automaker's new M264 four-cylinder engine but it will come without the 48-volt system ... Mercedes-Benz Powertrain Portfolio Bus EURO VI. Mercedes-Benz Powertrain offers outperforming and individual engineered powertrain components: engine systems, transmissions and axles - each will provide our ...

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