

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.

6 3 Conditions For Parallelograms Work

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Carnahan**

6 3 Conditions For Parallelograms Work:

Collected Works of William P. Thurston with Commentary Benson Farb, David Gabai, Steven P. Kerckhoff, 2023-06-02

William Thurston's work has had a profound influence on mathematics. He connected whole mathematical subjects in entirely new ways and changed the way mathematicians think about geometry, topology, foliations, group theory, dynamical systems and the way these areas interact. His emphasis on understanding and imagination in mathematical learning and thinking are integral elements of his distinctive legacy. This four part collection brings together in one place Thurston's major writings, many of which are appearing in publication for the first time. Volumes I-III contain commentaries by the Editors. Volume IV includes a preface by Steven P. Kerckhoff. Volume II contains William Thurston's papers on the geometry and topology of 3-manifolds, on complexity, constructions and computers and on geometric group theory.

Works Henry Brougham, Brougham and Vaux, 1860

Works Henry Brougham, Baron Brougham and Vaux, 1872

Works of Henry Lord Brougham:

Natural theology, Dialogues on instinct, Observations on the structure of the cells of bees, and Fossil osteology

Henry Brougham, Baron Brougham and Vaux, 1872

Structural Synthesis in Precision Elasticity Yakov M

Tseytlin, 2007-03-20. Structural Synthesis in Precision Elasticity reflects the summary of theoretical and experimental studies whose conclusions are effective for optimized structural synthesis in precision elasticity as well as demonstrate a large experience and options in the synthesis production application of precision elastic guides, mechanisms, correctors, transducers, instruments and machines. The main focus of this book is in the possible simplification of the corresponding analytical apparatus by using kinematical equivalents, matrix methods, appropriate contours and function expansion with enough accurate minimal polynomials. This approach allows for substitution of some known unwieldy formulae and methods that are not convenient for digestible and tractable synthesis. The book consists of two main parts. The elastic systems functional analysis and structural synthesis methods including effective approximations and references to the history of their development. The application and development of precision functional elastic systems at reference and operating conditions including the observation of archives with effective synthesized structures and elements of nanotechnology. Each part provides theoretical basics and a large variety of examples and recommendations. This book gives theoretical and practical tools to researchers, precision machines, instruments and miniature systems, designers, engineers, metrologists and engineering students. Despite that this book is dedicated to the general problems of the structural synthesis in precision elasticity, most of the practical examples and applications are concerned with the measuring systems as the precision is their main goal. The author intends to show close connection between the elastic precision structures developed during the 20th century and even before and the new elastic systems for atomic force microscopy and other recently created advanced structures in precision elasticity.

Progress in Artificial Intelligence — IBERAMIA 98 Helder Coelho, 2003-07-31

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Report of the Minister ... Upon the Condition of Public Schools, 1886 **Teacher's Manual for Geometry**

Howard Franklin Fehr, Walter H. Carnahan, 1961 **Annual Report of the Chief Superintendent of Education**, 1894

Annual Report of the Common, Superior, Grammar and Training & Model Schools in New Brunswick New Brunswick.

Education Office, 1894 **Works of Henry, Lord Brougham: Natural theology** Henry Brougham Baron Brougham and Vaux, 1855 **The Elements of Geometrical Drawing** Henry John Spooner, 1901 **Annual Report of the Department of Education** New Brunswick. Board of Education, New Brunswick. Department of Education, 1893 **Geometry &**

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