

SLOPE

KEY CONCEPTS GUIDE

SLOPE KEY CONCEPTS

WHAT IS SLOPE?

Slope is a number that describes the direction and the steepness of a line. We can have a positive slope, negative slope, no slope, and undefined slope.



FINDING THE SLOPE OF A LINE

The slope of a line can also be described as the change in y versus the change in x or "rise over run." When given a graph, you can determine the slope by counting the units that you will rise and run between two points, or calculating the change between two ordered pairs (two points) on the line.

Example:



Example:



$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\text{slope} = \frac{2 - 1}{1 - 0} = 1$$

$$\text{slope} = \frac{0 - 2}{1 - 0} = -2$$

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\text{slope} = \frac{2 - 1}{1 - 0} = 1$$

$$\text{slope} = \frac{0 - 2}{1 - 0} = -2$$

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

SLOPE-INTERCEPT FORM

The slope-intercept form of a linear equation is $y = mx + b$.

Where m is the slope of the line and b is the y -intercept (the line intersects the y -axis).



m is slope
 b is y -intercept

Given the slope-intercept form, identify the slope and the y -intercept. Use the slope and y -intercept to graph the line. The slope of the line is 2, and the y -intercept is 3. The line passes through the points (0, 3) and (1, 5). The line has a positive slope of 2, and the y -intercept is 3.

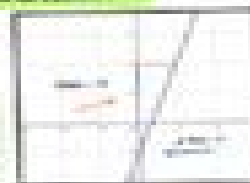
POINT-SLOPE FORM

When given an equation, use the slope and y -intercept to graph the line. The slope-intercept form is $y = mx + b$. The slope of the line is m , and the y -intercept is b .

Example: $y = 2x + 3$

Slope: 2
Y-intercept: 3

Graph the line on a coordinate plane. The line passes through the points (0, 3) and (1, 5).



Example:

Graph the point-slope equation on a coordinate plane. The line passes through the point (0, 3) and has a slope of 2. The line passes through the points (0, 3) and (1, 5).

Example: $y - 3 = 2(x - 0)$

Slope: 2
Y-intercept: 3

Graph the line on a coordinate plane. The line passes through the points (0, 3) and (1, 5).

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Example: $y - 3 = 2(x - 0)$

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KEY VOCABULARY, STEP-BY-STEP EXAMPLES, + VISUALS
ALL TOGETHER IN ONE COHESIVE GUIDE!

Algebra Investigating Slope Key

McDougal Littell Incorporated



Algebra Investigating Slope Key:

The Future of the Teaching and Learning of Algebra Kaye Stacey, Helen Chick, Margaret Kendal, 2006-04-11 Kaye Stacey Helen Chick and Margaret Kendal The University of Melbourne Australia Abstract This section reports on the organisation procedures and publications of the ICMI Study The Future of the Teaching and Learning of Algebra Key words Study Conference organisation procedures publications The International Commission on Mathematical Instruction ICMI has since the 1980s conducted a series of studies into topics of particular significance to the theory and practice of contemporary mathematics education Each ICMI Study involves an international seminar the Study Conference and culminates in a published volume intended to promote and assist discussion and action at the international national regional and institutional levels The ICMI Study running from 2000 to 2004 was on The Future of the Teaching and Learning of Algebra and its Study Conference was held at The University of Melbourne Australia from December to 2001 It was the first study held in the Southern Hemisphere There are several reasons why the future of the teaching and learning of algebra was a timely focus at the beginning of the twenty first century The strong research base developed over recent decades enabled us to take stock of what has been achieved and also to look forward to what should be done and what might be achieved in the future In addition trends evident over recent years have intensified Those particularly affecting school mathematics are the massification of education continuing in some countries whilst beginning in others and the advance of technology

Algebra 1: An Integrated Approach McDougal Littell Incorporated, 1998 **Discovering Algebra Preliminary Edition** Jerald Murdock, Ellen Kamischke, Eric Kamischke, 2000 **Key Maths 9/1 Teacher File- Revised** David Baker, Paul Hogan, Barbara Job, Irene Patricia Verity, 2014-11 Fully in line with the Framework for Teaching Mathematics this series provides coverage of the curriculum intended to enable students to revise and consolidate key concepts Every chapter contains questions in the style of the National Tests The three Ma1 tasks in every students book have detailed marking guidance in the equivalent teacher file to support key assessment at the end of the key stage The last resource section of this file contains a series of summary activities for new or previously absent teachers or pupils covering all the chapters Additions such as question banks and ICT CD ROMs are available to provide further support **The Geometer's sketchpad: dynamic geometry for the 21 century.** Steven Chanan, 2000 **Key Maths** David Baker, 2001 Planned developed and written by practising classroom teachers with a wide variety of experience in schools this maths course has been designed to be enjoyable and motivating for pupils and teachers The course is open and accessible to pupils of all abilities and backgrounds and is differentiated to provide material which is appropriate for all pupils It provides spiral coverage of the curriculum which involves regular revisiting of key concepts to promote familiarity through practice This teacher s file is designed for stage three of Year 9 **Calculus Essentials For Dummies** Mark Ryan, 2019-04-15 Calculus Essentials For Dummies 9781119591207 was previously published as Calculus Essentials For Dummies 9780470618356 While this version

features a new Dummies cover and design the content is the same as the prior release and should not be considered a new or updated product Many colleges and universities require students to take at least one math course and Calculus I is often the chosen option Calculus Essentials For Dummies provides explanations of key concepts for students who may have taken calculus in high school and want to review the most important concepts as they gear up for a faster paced college course Free of review and ramp up material Calculus Essentials For Dummies sticks to the point with content focused on key topics only It provides discrete explanations of critical concepts taught in a typical two semester high school calculus class or a college level Calculus I course from limits and differentiation to integration and infinite series This guide is also a perfect reference for parents who need to review critical calculus concepts as they help high school students with homework assignments as well as for adult learners headed back into the classroom who just need a refresher of the core concepts The Essentials For Dummies Series Dummies is proud to present our new series The Essentials For Dummies Now students who are prepping for exams preparing to study new material or who just need a refresher can have a concise easy to understand review guide that covers an entire course by concentrating solely on the most important concepts From algebra and chemistry to grammar and Spanish our expert authors focus on the skills students most need to succeed in a subject

International Reflections on the Netherlands Didactics of Mathematics Marja van den

Heuvel-Panhuizen,2019-08-13 This open access book inspired by the ICME 13 Thematic Afternoon on European Didactic Traditions takes readers on a journey with mathematics education researchers developers and educators in eighteen countries who reflect on their experiences with Realistic Mathematics Education RME the domain specific instruction theory for mathematics education developed in the Netherlands since the late 1960s Authors from outside the Netherlands discuss what aspects of RME appeal to them their criticisms of RME and their past and current RME based projects It is clear that a particular approach to mathematics education cannot simply be transplanted to another country As such in eighteen chapters the authors describe how they have adapted RME to their individual circumstances and view on mathematics education and tell their personal stories about how RME has influenced their thinking on mathematics education

Resources for Preparing Middle School Mathematics Teachers Cheryl Beaver,Laurie J. Burton,Maria Gueorguieva Gargova Fung,Klay Kruczek,2013 Cheryl Beaver Laurie Burton Maria Fung Klay Kruczek editors Cover

Enhancing Your Students' Mathematics Learning Through Cooperative Small-Group Discovery Neil Davidson,James Fey,Charlene Beckmann,2025-08-13 This book outlines cooperative small group discovery CSGD theory and practical learning strategies for implementing it in secondary and collegiate classrooms Based on Neil Davidson s decades of work the author team has designed a resource to help current users of small group methods in mathematics refine their practice and to entice others to try the strategies themselves The book describes principles and strategies for teaching complemented by an extensive collection of examples from instructional materials designed to support teacher implementation with a focus on topics in the

algebra curriculum Chapters are organized into four parts beginning with the theory and practice of CSGD and moving through examples and guidance both on sequencing CSGD activities into unit plans and addressing challenges of CSGD in the classroom The authors outline the rationale and basic operational principles of teaching through CSGD as well as common student and teacher roles accompanied by a variety of structural models to illustrate these roles The authors also include lesson plans that show how students can develop an understanding of elementary and advanced algebra through problem based CSGD and how coherent units of CSGD material can be used to develop student understanding of key ideas about linear and quadratic functions The authors complement this information with practical strategies for getting started with cooperative small group discovery teaching some common challenges in using small group methods and proven methods for solving those problems Ideal for educators and faculty involved in secondary and collegiate mathematics instruction this resource develops teacher understanding of principles and methods of cooperative learning and provides practical advice on getting started and refining that work

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