

# ALGEBRA I END OF COURSE STUDY GUIDE

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**Slope**  $y = mx + b$   
*m is the slope*  
*b is the y-axis intercept*

Find Slope given a table:



Find Slope given a graph:

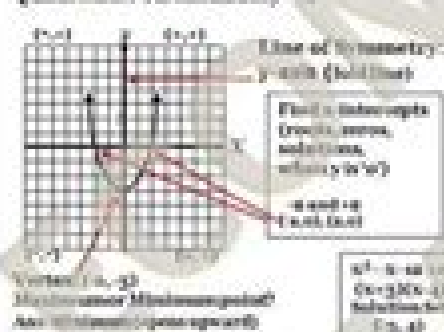


Linear Functions:

Possible representations

|                                           |                  |
|-------------------------------------------|------------------|
| Save \$100 per week                       | Job pay          |
| Silly string cost \$5.00 per can          | Cost of a can    |
| Charged \$5.00 every minute               | Cost of a minute |
| Earl's car is 100 miles                   | Distance         |
| Earl's car is 100 miles                   | Distance         |
| Car rental costs \$100 plus \$10 a day    | Cost of a day    |
| Represented by a half-price discount card | Cost of a day    |
| One person every 4 minutes, 10 hours      | Cost of a day    |
| Earns 2.5% commission on sales            | Cost of a day    |

Quadratics: Parabolic function  $y = ax^2 + bx + c$



Exponent Basics:  $x^a \cdot x^b = x^{a+b}$ ,  $x^a \div x^b = x^{a-b}$ ,  $x^0 = 1$

Add Exponents & multiply numbers

$$x \cdot x = x^2, x^2 \cdot x^2 = x^4, 2x \cdot 3x^2 = 6x^3$$

$$x^2 \cdot x^2 = x^4, 2x^2 \cdot 3x^2 = 6x^4, 3x^2 \cdot 2x^2 = 6x^4$$

$$4x^2 \cdot 3x^2 = 12x^4, 3x^2 \cdot 4x^2 = 12x^4, 3x^2 \cdot 4x^2 = 12x^4$$

Subtract Exponents & Divide numbers

$$\frac{x^3}{x^2} = x^{3-2} = x^1 = x, \frac{27x^3y^3}{3x^2y^2} = 9x^{3-2}y^{3-2} = 9xy$$

$$\frac{(-6x^2y^3)(2x^2y^3)}{-18x^2y^3} = \frac{-12x^4y^6}{-18x^2y^3} = \frac{2x^2y^3}{3}$$

Solve for 'y'

$$3x + 4y = 24$$

$$-3x \quad -3x$$

$$4y = -3x + 24$$

$$\frac{4y}{4} = \frac{-3x + 24}{4}$$

$$y = -\frac{3}{4}x + 6$$

Steps:

- Add positive or negative 'y' opposite sign of y.
- Cancel integers then bring down carefully.
- Divide by the number in front of y.
- Rewrite.

Distributive property

$$4(x + 3) = 4x + 12$$

$$-3x(7x - 4) + 6x = (-21x^2 + 12x) + 6x = -21x^2 + 18x$$

$$\frac{2}{5}(15ab^2 - 40ab^2) - \frac{2}{3}(32ab^2 - 6ab^2)$$

$$6ab^2 - 16ab^2 - \frac{64}{3}ab^2 + 4ab^2$$

$$5ab^2 - 24ab^2$$

Combine 'Like Terms'

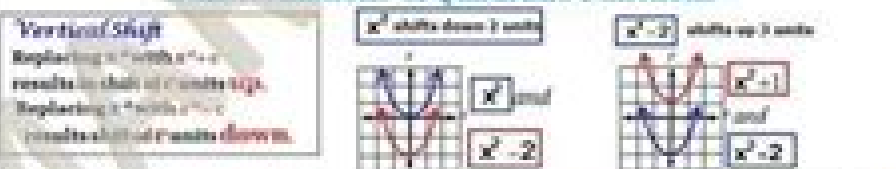
Same Variables with the Same Exponents

Find the slope of the line passing through (1, 2) and (3, 4)

Answer:  $\frac{4-2}{3-1} = \frac{2}{2} = 1$



Transformations of Quadratic Functions



# Algebra Study Guide For Finals

**Theodore John Szymanski**



## **Algebra Study Guide For Finals:**

**Ace your Midterms & Finals: Fundamentals of Mathematics** Alan Axelrod, Walton Rawls, Harry Oster, James Holtje, 1999-06-17 ACE Your Midterms and Finals A new concept in test prep for a new generation of students These class tested guides feature Midterms and final examinations one from each of the top universities throughout the country An introductory essay defining the nature and scope of the course including its goals and what instructors expect students to learn A step by step guide to writing the essay and fully explained answers to essay questions complete with discussion and notes from the professor

**Standards-Driven Power Algebra I (Textbook & Classroom Supplement)** Nathaniel Max Rock, 2005-08 Standards Driven Power Algebra I is a textbook and classroom supplement for students parents teachers and administrators who need to perform in a standards based environment This book is from the official Standards Driven Series Standards Driven and Power Algebra I are trademarks of Nathaniel Max Rock The book features 412 pages of hands on standards driven study guide material on how to understand and retain Algebra I Standards Driven means that the book takes a standard by standard approach to curriculum Each of the 25 Algebra I standards are covered one at a time Full explanations with step by step instructions are provided Worksheets for each standard are provided with explanations 25 question multiple choice quizzes are provided for each standard Seven full length 100 problem comprehensive final exams are included with answer keys Newly revised and classroom tested Author Nathaniel Max Rock is an engineer by training with a Masters Degree in business He brings years of life learning and math learning experiences to this work which is used as a supplemental text in his high school Algebra I classes If you are struggling in a standards based Algebra I class then you need this book E Book ISBN 0 9749392 1 8 ISBN13 978 0 9749392 1 6

*Understanding Intermediate Algebra* Lewis Hirsch, Arthur Goodman, 1998 Authors Hirsch and Goodman clearly and carefully develop students understanding of intermediate algebra concepts by using a unique spiral approach This approach presents a topic at an elementary level and then returns to it at increasing levels of complexity This gradual introduction builds student confidence while developing concepts rules and definitions To complement this approach the authors include a wealth of numerical and algebraic examples that reflect a wide variety of situations These illustrative examples compare and contrast related ideas helping students understand the sometimes subtle distinctions among various situations

**Community College Mathematics** Brian Cafarella, 2022-06-29 This book explores the rich history of community college math with a specific focus on gatekeeper math classes Gatekeeper math classes include courses such as college algebra introduction to statistics and all developmental math classes For community colleges successful completion of these classes is imperative for student retention This book presents a decade by decade analysis of the history of community college mathematics The author employs a mix of conceptual empirical and quantitative research The empirical research stems from interviews with 30 community college faculty members from seven community colleges From the 1970s to the pandemic in the early 2020s the

book explores math curricula as well as trends initiatives teaching practices and mandates that have impacted community college math The positives and negatives of such trends initiatives and mandates are presented along with suggestions on how to apply such knowledge going forward The author addresses the key questions How can we build a future model for community college gatekeeper math classes that is both successful and sustainable Additionally how can we learn from the past and the present to build such a model This book will be ideal for students in graduate programs focusing on community college leadership or developmental education leadership as well as all those hoping to improve success rates in community college mathematics programs

*Algebra Facts* Theodore John Szymanski,1993 Provides easy access to the most crucial concepts and formulas in basic algebra      **7th Grade Math Is Easy! So Easy** Nathaniel Max Rock,2006-02 Rock offers a guide to what it takes to master seventh grade math Education      **Crisis in Science and Math Education** United States. Congress. Senate. Committee on Governmental Affairs,1990

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*Standards-Driven Power Algebra II* Nathaniel Rock,2006-02 This textbook and classroom supplement for students parents teachers and administrators features hands on standards driven study guide material on how to understand and retain Algebra II Education Teaching      A Parent's Guide to Great Explorations in Math & Science (GEMS) ,1991 Grade level 1 2 3 4 5 6 7 8 k p e i t

## **Algebra Study Guide For Finals** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Algebra Study Guide For Finals**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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