

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

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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

$$x \cdot x = x^2, x^2 \cdot x^2 = x^4, x^3 \cdot x^3 = x^6, x^4 \cdot x^4 = x^8$$

$$x^2 \cdot x^3 = x^5, x^3 \cdot x^4 = x^7, x^4 \cdot x^5 = x^9, x^5 \cdot x^6 = x^{11}$$

$$x^2 \cdot x^3 = x^5, x^3 \cdot x^4 = x^7, x^4 \cdot x^5 = x^9, x^5 \cdot x^6 = x^{11}$$

$$x^2 \cdot x^3 = x^5, x^3 \cdot x^4 = x^7, x^4 \cdot x^5 = x^9, x^5 \cdot x^6 = x^{11}$$

Subtract Exponents & Divide numbers

$$\frac{x^5}{x^2} = x^3, \frac{x^7}{x^4} = x^3, \frac{x^9}{x^6} = x^3, \frac{x^{11}}{x^8} = x^3$$

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

Solve for 'y'

$3x + 4y = 24$

$4y = -3x + 24$

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

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

Steps:

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

Distributive property

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

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

$$\frac{2}{5}(15ab^2 - 40ab^2) - \frac{2}{3}(32ab^2 - 8a^2b)$$

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

$$-8ab^2 + \frac{16}{3}a^2b$$

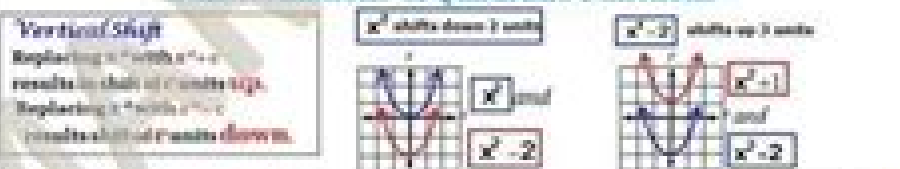
Combine Like Terms
 Same Variables with the Same Exponents

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

$\frac{\Delta y}{\Delta x} = \frac{-4 - 2}{3 - (-1)} = \frac{-6}{4} = -\frac{3}{2}$



Transformations of Quadratic Functions



Audible Algebra Study Guide

Chao Zhang



Audible Algebra Study Guide:

Guide to Teaching Puzzle-based Learning Edwin F. Meyer III, Nickolas Falkner, Raja Sooriamurthi, Zbigniew Michalewicz, 2014-07-23 This book provides insights drawn from the authors extensive experience in teaching Puzzle based Learning Practical advice is provided for teachers and lecturers evaluating a range of different formats for varying class sizes Features suggests numerous entertaining puzzles designed to motivate students to think about framing and solving unstructured problems discusses models for student engagement setting up puzzle clubs hosting a puzzle competition and warm up activities presents an overview of effective teaching approaches used in Puzzle based Learning covering a variety of class activities assignment settings and assessment strategies examines the issues involved in framing a problem and reviews a range of problem solving strategies contains tips for teachers and notes on common student pitfalls throughout the text provides a collection of puzzle sets for use during a Puzzle based Learning event including puzzles that require probabilistic reasoning and logic and geometry puzzles **Films and Other Materials for Projection** Library of Congress, 1978 *The National Guide to Educational Credit for Training Programs*, 1996 **A Guide to High School Success for Students with Disabilities** Cynthia Ann Bowman, Paul T. Jaeger, 2004-10-30 Written for young people with disabilities and the people who care for and educate them this unique resource offers both inspiration and advice to help disabled teenagers successfully meet the special social and academic challenges of high school and to find their paths into the future Compiling a wealth of expertise on a range of issues in high school and all the accompanying major life events this edited volume offers guidance support experience and encouragement providing everything from explanation of legal rights to guidance on effective study habits Through the voices of disabled students and their teachers and family members the book provides insights into the internal dilemmas that students face as well as problems they may encounter in the classroom at home and in society This book is written to offer tools that empower students with disabilities face their challenges while providing educators family members and friends insights into issues these students may encounter during their high school years Every high school teacher administrator counselor and librarian should familiarize themselves with the issues explored on these pages The book is divided into five topical sections that each addresses a set of related issues Section I provides a history of disabilities across different times and cultures and a discussion of the legal rights of students with disabilities Section II discusses the cultural and social issues disabled teens face in modern society and looks at representations in film and literature Section III is devoted to the many interactions and relationships faced in high school including dating socialization and extracurricular activities Section IV addresses issues related to academic success and the concluding chapter offers tools for advocacy and empowerful Appendices complete this multi facted volume with lists of additional readings and on line resources for students with disabilities [Library of Congress Catalogs](#) Library of Congress, 1973 **The School Journal**, 1904 **National Union Catalog**, 1973 **Video Rating Guide for Libraries**, 1990 **Classroom Robotics** Kathleen

P. King, Mark Gura, 2007-02-01 The purpose of this book is to reach out to teachers parents coaches and students who may be hoping to or just investigating the possibility of how to get started with robotics At the same time we hope to leverage the efforts of those who have been hard at work and play in this massive movement for many years applaud their efforts and provide them with documentation support and additional resources to reach further into the possibilities they can help create for all of us in bringing the power and potential of learning through robotics to more students to the classroom and beyond Not only does this book provide resources and firsthand insight into this exciting field but it also provides one of a kind perspectives of curricular applications of robotics for student learning The Journal of Education ,1898

Audible Algebra Study Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Audible Algebra Study Guide**," published 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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