

ALGEBRA I End of Course STUDY GUIDE

Slope:

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

Find Slope given a table:

x	y
0	-4
2	-8
-1	0

(the change in "y" over the change in "x")

$$\frac{\Delta y}{\Delta x} = \frac{-8}{-3} = \frac{8}{3}$$

x	y
2	4
0	0

Find the slope given two points
 (x₁, y₁) (x₂, y₂)

$$\frac{\Delta y}{\Delta x} = \frac{4}{2} = 2$$

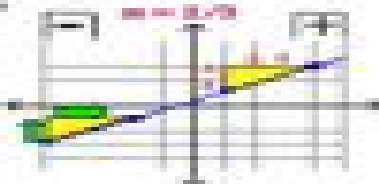
Find Slope given a graph:

Method 1:

1. Choose any two points.
2. Create table with points.
3. Find Δy and Δx .

Method 2:

Slope
 = $\frac{\Delta y}{\Delta x}$



Independent:

x

Dependent:

$f(x)$

Domain:

$2x - 4$

Range:

$y \geq 0$

$8x$

$\sqrt{\quad}$

$3x^2$

Δx

$x = 100, y = 4$
 $x = 100, y = 100$
 $\Delta x = 0, \Delta y = 96$

Number of hours

Total cost \$

Number of hours worked

Amount of money \$ earned

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:

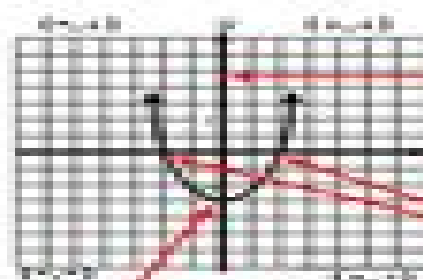
1. Add a positive or negative "x" Opposite sign of x.
2. Cancel same pairs (lines being done carefully).
3. Divide by the number in front of y.
4. Done!

Linear Functions:

Possible representations

Save \$50 each week	per
Silly starting each day, eg. 1000	per
Changed \$1.00 every minute	per
Earns \$10, eg. 1000	per
Converted each day plus \$100 a day	per + per
Step one then pay half price on second shirt	x + 10x
One person every 5 minutes, x = hours	per
Earns 2.5% commission on sales	x, y

Quadratics: Parent function $y = x^2$



Line of Symmetry:
 y -axis (solid line)

Find x-intercepts, vertex, solutions, where $y = 0$ (x's)

at end of graph, end

Vertex (0, 0)
 Maximum or Minimum point
 Axis: Minimum/Maximum, approach

$$x^2 + 3x + 4 = 0$$

$$x = \frac{-3 \pm \sqrt{9 - 16}}{2}$$

$$x = \frac{-3 \pm \sqrt{-7}}{2}$$

Exponent Basics

$$x = x^1$$

$$x^0 = \frac{1}{x}$$

$$x^1 = x$$

Add Exponents & multiply numbers

$$x^1 \cdot x^1 = x^2$$

$$3^1 \cdot 3^1 = 3 \cdot 3 = 9$$

$$2x \cdot 2x = 4x^2$$

$$x^2 \cdot x^2 = x^4 \quad (3 \cdot 4x^2)^2 = 3^2 \cdot 4^2 \cdot x^4 = 144x^4$$

$$x^2 + x^2 = 2x^2 \quad 3x^2 + 4x^2 = 7x^2$$

Subtract Exponents & divide numbers

$$\frac{x^2}{x^1} = x^{2-1} = x^1$$

$$\frac{3x^2}{3x} = x^1 = x$$

$$\frac{(-6x^2)(2x^2)}{-18x^2 \cdot 2} = \frac{-12x^4}{-36x^2} = \frac{1}{3}x^2$$

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1. Understanding the eBook Eoc Algebra Study Guide
 - The Rise of Digital Reading Eoc Algebra Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Eoc Algebra Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Eoc Algebra Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Eoc Algebra Study Guide
 - Personalized Recommendations

- Eoc Algebra Study Guide User Reviews and Ratings
- Eoc Algebra Study Guide and Bestseller Lists
- 5. Accessing Eoc Algebra Study Guide Free and Paid eBooks
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 - Eoc Algebra Study Guide Budget-Friendly Options
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 - Eoc Algebra Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Eoc Algebra Study Guide
 - Highlighting and Note-Taking Eoc Algebra Study Guide
 - Interactive Elements Eoc Algebra Study Guide
- 8. Staying Engaged with Eoc Algebra Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Eoc Algebra Study Guide
- 9. Balancing eBooks and Physical Books Eoc Algebra Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Eoc Algebra Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Eoc Algebra Study Guide
 - Setting Reading Goals Eoc Algebra Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Eoc Algebra Study Guide
 - Fact-Checking eBook Content of Eoc Algebra Study Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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