

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 pays 1/2 the cost, x = hours	Cost of a day
Earns 2.0% 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

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

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

$$x^3 \cdot x^2 = x^5$$

$$x^4 \cdot x^3 = x^7$$

$$x^5 \cdot x^2 = x^7$$

$$x^6 \cdot x^1 = x^7$$

$$x^7 \cdot x^0 = x^7$$

Subtract Exponents & Divide numbers

$$\frac{x^5}{x^2} = x^{5-2} = x^3$$

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

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

Distributive property

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

$$-3x(2x - 4) + 6x = (-3x)(2x) + (-3x)(-4) + 6x$$

$$= -6x^2 + 12x + 6x = -6x^2 + 18x$$

$$-2(3x^2 + 5x) + 10x = -2(3x^2) + -2(5x) + 10x$$

$$= -6x^2 - 10x + 10x = -6x^2$$

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

$$= \frac{2}{3}(15ab^2 - 6ab^2 - 3ab^2 + 6ab^2)$$

$$= \frac{2}{3}(15ab^2 - 3ab^2)$$

$$= \frac{2}{3}(12ab^2)$$

$$= 8ab^2$$

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

Vertical Shift

Replacing x^2 with $x^2 + c$ results in shift of c units up.

Replacing x^2 with $x^2 - c$ results in shift of c units down.



Horizontal Compression

Changing x^2 to $(\frac{1}{2}x)^2$ compresses the parabola horizontally, making it narrower.

Horizontal Stretch

Changing x^2 to $(2x)^2$ stretches the parabola horizontally, making it wider.

Algebra Star Test Study Guide

J Rink



Algebra Star Test Study Guide:

This book delves into Algebra Star Test Study Guide. Algebra Star Test Study Guide is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Algebra Star Test Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Algebra Star Test Study Guide
- Chapter 2: Essential Elements of Algebra Star Test Study Guide
- Chapter 3: Algebra Star Test Study Guide in Everyday Life
- Chapter 4: Algebra Star Test Study Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Algebra Star Test Study Guide. This chapter will explore what Algebra Star Test Study Guide is, why Algebra Star Test Study Guide is vital, and how to effectively learn about Algebra Star Test Study Guide.
3. In chapter 2, this book will delve into the foundational concepts of Algebra Star Test Study Guide. The second chapter will elucidate the essential principles that need to be understood to grasp Algebra Star Test Study Guide in its entirety.
4. In chapter 3, the author will examine the practical applications of Algebra Star Test Study Guide in daily life. The third chapter will showcase real-world examples of how Algebra Star Test Study Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Algebra Star Test Study Guide in specific contexts. This chapter will explore how Algebra Star Test Study Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Algebra Star Test Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Algebra Star Test Study Guide.

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