

Introductory Algebra



TERMINOLOGY

| I E MINISTER WILLIAM I | | | |
|-------------------------------------|--|--|--|
| Rational numbers | Ratios of integers: $3/4$, $-8/5$, $127/16$, $-3/1 = -3$ | | |
| Irrational numbers | Numbers that cannot be expressed as ratios $\sqrt{7}_s - \frac{1}{3^{2/3}}_s, \pi_s e$ of integers: | | |
| Algebraic expressions | Combinations of numbers and letters: $So-6b^2$, $2sy$, $\frac{5bc+d}{2a^3-6}$ | | |
| Terms of an algebraic expression | Products or quotients of numbers and letters: $5x^2y^3$, $\frac{1}{2}\frac{ab}{c}$ but $5x^2y^3 - \frac{1}{2}\frac{ab}{c}$ is an algebraic expression, not a term | | |
| Monomial | Algebraic expressions consisting of one term | | |
| Binomial | Algebraic expressions consisting of two terms | | |
| Multinomial | Algebraic expressions $\frac{6x}{y} + \frac{3}{2}\frac{z}{z} + \sqrt{2}xyz$ than two terms: | | |
| Polynomial | Algebraic expressions consisting of several terms that are integral and rational in the lettered terms: $5x^4 - 6x^3 + x^2 - 2x + 1$ but $3/x + y$, $4\sqrt{x} + 3$ are not polynomial | | |
| Degree of monomial | Sum of exponents of lettered symbols: $4x^3y^2z^5$ is of degree 10 | | |
| Degree of polynomial | Exponent of the term of the highest degree: $5x^5 - 6x^3 + x^2 - x + 1$ has a degree of 4 | | |
| a.b. c.u. v. w - real constants | A, B, C, D, E #(4), g(4) - algebraic expressions — functions of x | | |

DEALING WITH FRACTIONS

ROLES EX

Bude 1

The numerator/denominator can be multiplied/divided by the same factor

$\frac{x}{y} = \frac{-x}{-y} = \frac{3x}{3y} = \frac{x/\sqrt{x}}{y/\sqrt{x}}$

Rule 2

To add/subtract fractions, write each fraction in terms of a common denominator, preferably the lowest common denominator (LCD)

$$\frac{7}{x} - \frac{2}{x-1} = \frac{3}{x^2} \quad LCD = x^2(x-1)$$

$$= \frac{7x(x-1) + 2x^2 + 3(x-1)}{x^2(x-1)}$$

$$= \frac{9x^2 - 4x - 3}{x^2(x-1)}$$

Rude 3

To multiply fractions, multiply the numerators and denominators separately

$$\frac{2a}{3b} \times \frac{6b}{a^2} = \frac{12ab}{3a^2b} = \frac{4}{a}$$

Physics 4

To divide by a fraction, invert the fraction and multiply

$$\frac{a+2ab}{3a^2} + \frac{2b+1}{6a} = \frac{6a(a+2ab)}{(2b+1)3a^2}$$

= $\frac{2(1+2b)}{2b+1} = 2$

Bude 5

To divide sums or differences of fractions, reduce the numerator and denominator to single fractions using LCDs, and then divide the result

$$\frac{a+1}{a-1} - \frac{a-1}{a+1} = \frac{(a+5)^2 - (a-5)^2}{(a-5)^2 - (a+5)}$$

$$= \frac{a^2 + 2a + 1 - a^2 + 2a - 1}{2a} = 2$$

INTEREST

SIMPLE INTEREST

| P | - | principal |
|------|---|------------------------|
| 1 | - | accumulated interest |
| A. | - | principal + interest |
| R | - | interest rate per year |
| PM . | - | number of years |
| 1 | - | PERM |
| AL. | - | P(1 + RN) |

Example

- Interest to be paid on \$4,000 borrowed at 10% for 5 years
- I = PRN = 4000 × 0.10 × 5 = \$2,000
- Principal to be invested at 7% that will yield \$10,000 in 5 years

$$P = \frac{A}{1 + RN} = \frac{10,000}{1 + 0.07 \times 5} = $7,402.41$$

COMPOUND INTEREST

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| P. | - principal |
|-----|------------------------------|
| 1 | - compound interest |
| A | - compound amount |
| 180 | - interest rate per period |
| 194 | - number of interest periods |
| 1 | = A - P |
| A. | $= P(1 + 0^N)$ |

Example

 Compound amount A received and compound interest / earned on principal of \$3,000 compounded semi-annually at 5% over 2 years

QUADRATIC EQUATIONS

 Every quadratic equation (oxf + bx + c = 0) in one unknown has exactly two roots (x, and x_s) that can be real, equal, or complex

Priorities.

- If one is complex, then the 2nd is its conjugate: A ± Bi
- The sum of the roots is given by: x, + x, = -b/a
- The product of the roots is given by: x_ix_j = c/a

QUADRATIC PORMULA

 The roots of a quadratic equation are given directly by the relation;

Example

Given:
$$3x^2 + 8x + 5 = 0$$

Substitute in:

$$x_{1,2} = \frac{-8 \pm \sqrt{64 - 4 \times 5 \times 3}}{2 \times 3}$$

 \(\times x_1 = -1\) and \(x_2 = -5/3\)

THE BOOKS

Nature of the Roots
The Discriminant, $D = b^2 - 4oc$

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Table of Contents Mcmxciv Instructional Fair Inc Algebra If8762 Answers

- 1. Understanding the eBook Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - The Rise of Digital Reading Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - 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 Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mcmxciv Instructional Fair Inc Algebra If8762 Answers

- Personalized Recommendations
- Mcmxciv Instructional Fair Inc Algebra If8762 Answers User Reviews and Ratings
- Mcmxciv Instructional Fair Inc Algebra If8762 Answers and Bestseller Lists
- 5. Accessing Mcmxciv Instructional Fair Inc Algebra If8762 Answers Free and Paid eBooks
 - Mcmxciv Instructional Fair Inc Algebra If8762 Answers Public Domain eBooks
 - Mcmxciv Instructional Fair Inc Algebra If8762 Answers eBook Subscription Services
 - Mcmxciv Instructional Fair Inc Algebra If8762 Answers Budget-Friendly Options
- 6. Navigating Mcmxciv Instructional Fair Inc Algebra If8762 Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mcmxciv Instructional Fair Inc Algebra If8762 Answers Compatibility with Devices
 - Mcmxciv Instructional Fair Inc Algebra If8762 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - Highlighting and Note-Taking Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - Interactive Elements Mcmxciv Instructional Fair Inc Algebra If8762 Answers
- 8. Staying Engaged with Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - $\circ\,$ Following Authors and Publishers Mcmxciv Instructional Fair Inc Algebra If8762 Answers
- 9. Balancing eBooks and Physical Books Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mcmxciv Instructional Fair Inc Algebra If8762 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - Setting Reading Goals Mcmxciv Instructional Fair Inc Algebra If8762 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mcmxciv Instructional Fair Inc Algebra If8762 Answers

- Fact-Checking eBook Content of Mcmxciv Instructional Fair Inc Algebra If8762 Answers
- 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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