



TERMINOLOGY

Rational numbers	<p>Ratios of integers: $3/4$, $-8/5$, $127/16$, $-3/1 = -3$</p>
Irrational numbers	<p>Numbers that cannot be expressed as ratios of integers: $\sqrt{2}$, $-\frac{1}{3\sqrt{3}}$, π, e</p>
Algebraic expressions	<p>Combinations of numbers and letters: $5a - 6b^2$, $2xy$, $\frac{50c + d}{2a^3 - 6}$</p>
Terms of an algebraic expression	<p>Products or quotients of numbers and letters: $\frac{5a^2y^3}{2c}$, $\frac{1ab}{2c}$ but $5a^2y^3 - \frac{1ab}{2c}$ is an algebraic expression, not a term</p>
Monomial	Algebraic expressions consisting of one term
Binomial	Algebraic expressions consisting of two terms
Multinomial	Algebraic expressions consisting of more than two terms: $\frac{6x}{y} + \frac{3x}{2a} + \sqrt{2}xyz$
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: $4x^2y^2z^3$ is of degree 10
Degree of polynomial	Exponent of the term of the highest degree: $5x^4 - 6x^3 + x^2 - x + 1$ has a degree of 4
a, b, c, u, v, w = real constants	<p>A, B, C, D, E = algebraic expressions</p> <p>$f(x), g(x)$ = functions of x</p>

INTEREST

SIMPLE INTEREST

P	= principal
I	= accumulated interest
A	= principal + interest
R	= interest rate per year
N	= number of years
I	= $P \times R \times N$
A	= $P(1 + RN)$

Example

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

$$P = \frac{A}{1 + RN} = \frac{10,000}{1 + 0.07 \times 5} = \$7,407.41$$

COMPOUND INTEREST

P	= principal
I	= compound interest
A	= compound amount
R	= interest rate per period
N	= number of interest periods
I	= $A - P$
A	= $P(1 + i)^N$

Example

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

$$\begin{aligned} i &= 0.05/2 = 0.025 \\ N &= 4 \\ P &= \$5,000 \\ A &= P(1 + i)^N = 5000(1 + 0.025)^4 = \$5,519.06 \\ I &= A - P = \$519.06 - 5000 = \$19.06 \end{aligned}$$

DEALING WITH FRACTIONS

RULES

Rule 1
The numerator/denominator can be multiplied/divided by the same factor

EXAMPLE

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

Rule 2
To add/subtract fractions, write each fraction in terms of a common denominator, preferably the lowest common denominator (LCD)

$$\begin{aligned} \frac{7}{x} - \frac{2}{x-1} &= \frac{3}{x^2} \quad \text{LCD} = x^2(x-1) \\ &= \frac{7x(x-1) - 2x^2}{x^2(x-1)} \\ &= \frac{9x^2 - 4x - 3}{x^2(x-1)} \end{aligned}$$

Rule 3
To multiply fractions, multiply the numerators and denominators separately

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

Rule 4
To divide by a fraction, invert the fraction and multiply

$$\begin{aligned} \frac{a+2ab}{3a^2} \div \frac{2b+1}{6a} &= \frac{6a(a+2ab)}{(2b+1)3a^2} \\ &= \frac{2(1+2b)}{2b+1} = 2 \end{aligned}$$

Rule 5
To divide sums or differences of fractions, reduce the numerator and denominator to single fractions using LCDs, and then divide the result

$$\begin{aligned} \frac{a+1}{a-1} \div \frac{a-1}{a+1} &= \frac{(a+1)^2 - (a-1)^2}{(a-1)(a+1)} \\ &= \frac{a^2 + 2a + 1 - a^2 + 2a - 1}{2a} = 2 \end{aligned}$$

QUADRATIC EQUATIONS

- Every quadratic equation ($ax^2 + bx + c = 0$) in one unknown has exactly two roots (x_1 and x_2) that can be real, equal, or complex.

Notes

- If one is complex, then the 2nd is its conjugate: $A \pm Bi$
- The sum of the roots is given by: $x_1 + x_2 = -b/a$
- The product of the roots is given by: $x_1x_2 = c/a$

QUADRATIC FORMULA

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

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Example

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

$$\begin{aligned} x_{1,2} &= \frac{-8 \pm \sqrt{64 - 4 \times 3 \times 5}}{2 \times 3} \\ \therefore x_1 &= -1 \text{ and } x_2 = -5/3 \end{aligned}$$

THE ROOTS

Nature of the Roots

The Discriminant, $D = b^2 - 4ac$

$$D = b^2 - 4ac > 0 \quad \text{Roots are real and unequal}$$

$$D = b^2 - 4ac = 0 \quad \text{Roots are real and equal}$$

$$D = b^2 - 4ac < 0 \quad \text{Roots are complex conjugates}$$

$$D = -4ac < 0 \quad \text{Roots are pure imaginary}$$

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CH Cherryholmes



Mcmxciv Instructional Fair Inc Algebra If8762 Polynomials:

Mcmxciv Instructional Fair Inc Algebra If8762 Polynomials Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mcmxciv Instructional Fair Inc Algebra If8762 Polynomials**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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