

# 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<sub>s</sub>) that can be real, equal, or complex

#### Printers.

- 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<sub>i</sub>x<sub>j</sub> = 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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