



## TERMINOLOGY

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

## INTEREST

### SIMPLE INTEREST

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

#### 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

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

#### 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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## Polynomials

**KJ Lindholm-Leary**



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web mar 11 2020 during the program scan cycle the plc reads the inputs solves the ladder logic and energizes or de energizes outputs because inputs can change at any time this process repeats over and over again while the plc is in run mode the diagram below shows a model of the plc program scan cycle

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