

Basic Algebra

Algebraic Transposition

$$\begin{aligned} a + b &= c \\ a &= c - b \\ b &= c - a \\ a + b - c &= 0 \end{aligned}$$

$$\begin{aligned} a &= \frac{b}{c} & b &= ac \\ c &= \frac{b}{a} & c &= \frac{b}{a} \end{aligned}$$

$$\frac{a}{b} = \frac{c}{d}$$

$$\begin{aligned} ad &= bc \\ a &= \frac{bc}{d} & c &= \frac{ad}{b} \\ b &= \frac{ad}{c} & d &= \frac{bc}{a} \end{aligned}$$

Quadratic Equation

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Exponents & Logarithms

Laws of Exponent

$$\left(\frac{a}{b}\right)^x = \frac{a^x}{b^x}$$

$$\frac{a^x}{a^y} = a^{x-y}$$

$$\frac{1}{a^x} = a^{-x}$$

$$\begin{aligned} (a^x)(a^y) &= a^{x+y} \\ (a^x)^y &= a^{xy} \\ a^{\frac{x}{y}} &= \sqrt[y]{a^x} \end{aligned}$$

Laws of Logarithm

$$\begin{aligned} y &= \log_a x \\ b^y &= x \end{aligned}$$

$$\begin{aligned} \log_a a &= 1 \\ \log_a 1 &= 0 \\ \log_a b^x &= x \end{aligned}$$

$$\begin{aligned} \log_a (x^r) &= r \log_a x \\ \log_a (xy) &= \log_a x + \log_a y \\ \log_a \left(\frac{x}{y}\right) &= \log_a x - \log_a y \end{aligned}$$

Decibel Table

dB	Power Ratio	Watt Ratio	dB	Power Ratio	Watt Ratio
0	1.00	1.00	10	10	3.2
0.5	1.12	1.06	15	31.6	5.6
1	1.26	1.12	20	100	10
2	1.58	1.26	30	1k	32
3	2.00	1.41	40	10k	100
4	2.51	1.58	50	10 ⁵	316
5	3.16	1.78	60	10 ⁶	1k
6	3.98	2.00	70	10 ⁷	3.16k
7	5.01	2.24	80	10 ⁸	10k
8	6.31	2.51	90	10 ⁹	31.6k
9	7.94	2.82	100	10 ¹⁰	10 ⁵

Common Conversions

Metric to Metric

$\times 10^6$ mega-
 $\times 10^3$ kilo-
 $\times 10^2$ hecto-
 $\times 10^1$ deca-
 $\times 10^0$ base
 $\times 10^{-1}$ deci-
 $\times 10^{-2}$ centi-
 $\times 10^{-3}$ milli-
 $\times 10^{-6}$ micro-

$\left. \begin{array}{l} \text{mega-} \\ \text{kilo-} \\ \text{hecto-} \\ \text{deca-} \\ \text{base} \end{array} \right\} = \text{unit}$

Length: meter (m)
 Area: meter² (m²)
 Volume: liter (L)
 meter³ (m³)
 Mass: gram (g)

English to Metric/English

Length

1 in = 2.54 cm
 1 ft = 12 in



Area
 1 ft² = 144 in²
 1 acre = 43,560 ft²



Volume
 1 ft³ = 1728 in³
 1 yd³ = 27 ft³



Mass
 1 lb = 454 g
 1 lb = 16 oz

Abbrev: inch (in), feet (ft), pound (lb), yard (yd), ounce (oz)

Trigonometry

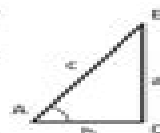
$$\sin A = \frac{a}{c} = \frac{\text{Opposite}}{\text{Hypotenuse}}$$

$$\cos A = \frac{b}{c} = \frac{\text{Adjacent}}{\text{Hypotenuse}}$$

$$\tan A = \frac{a}{b} = \frac{\text{Opposite}}{\text{Adjacent}}$$

$$\csc A = \frac{1}{\sin A} \quad \sec A = \frac{1}{\cos A}$$

$$\cot A = \frac{1}{\tan A}$$



Boolean Algebra

Basic Rules

$$A + 0 = A$$

$$A + 1 = 1$$

$$A + A = A$$

$$A + \bar{A} = 1$$

$$A \cdot 0 = 0$$

$$A \cdot 1 = A$$

$$A \cdot A = A$$

$$A \cdot \bar{A} = 0$$

$$\bar{\bar{A}} = A$$

$$A + \bar{A}B = A$$

$$A + \bar{A}B = A + B$$

$$(A + B)(A + C) = A + BC$$

De Morgan's

$$(\overline{AB}) = (\bar{A} + \bar{B}) \quad \overline{(A + B)} = (\bar{A})(\bar{B})$$

Number System Equivalent

Decimal	Binary	Octal	Hex.
0	0	0	0
1	1	1	1
2	10	2	2
3	11	3	3
4	100	4	4
5	101	5	5
6	110	6	6
7	111	7	7
8	1000	10	8
9	1001	11	9
10	1010	12	A
11	1011	13	B
12	1100	14	C
13	1101	15	D
14	1110	16	E
15	1111	17	F
16	1 0000	20	10
17	1 0001	21	11
18	1 0010	22	12
19	1 0011	23	13
20	1 0100	24	14
32	10 0000	40	20
64	100 0000	100	60
96	110 0000	140	60
99	110 0011	143	63

Decimal to Binary

21 = 2 × 10 + 1
 10 = 2 × 5 + 0
 5 = 2 × 2 + 1
 2 = 2 × 1 + 0
 1 = 1 × 1 + 0

Final quotient is final remainder

Binary to Decimal

101011
 1 × 2⁵ = 32
 0 × 2⁴ = 0
 1 × 2³ = 8
 0 × 2² = 0
 1 × 2¹ = 2
 1 × 2⁰ = 1

Binary, Octal & Hex

Group binary to 3 to convert to Octal

001 011 111
 1 3 7

Group binary to 4 to convert to Hex

0101 1111
 5 F

Convert back by doing the reverse (ungrouping).

Temperature

Lead melting pt.
 Water boiling pt.

328°C
 100°C

Conversion:

$$^{\circ}\text{F} = \left(^{\circ}\text{C} \times \frac{9}{5}\right) + 32$$

$$^{\circ}\text{C} = \frac{5}{9} \times (^{\circ}\text{F} - 32)$$

Human body temp.
 Room temp.
 Water freezing pt.

97°C
 22°C
 0°C



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Michael Brown



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