

Basic Algebra

Algebraic Transposition

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

$$\begin{aligned} a = b \\ b = c \\ c = b \end{aligned}$$

$$\begin{aligned} a = c \\ b = d \\ a = b \\ a = d \end{aligned}$$

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

Quadratic Equation

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

Exponents & Logarithms

Laws of Exponent

$$\begin{aligned} \left(\frac{a}{b}\right)^n = \frac{a^n}{b^n} \\ \frac{a^n}{a^m} = a^{n-m} \\ \frac{1}{a^n} = a^{-n} \end{aligned}$$

$$\begin{aligned} (a^m)(a^n) = a^{m+n} \\ (a^m)^n = a^{mn} \\ a^{\frac{1}{n}} = \sqrt[n]{a} \end{aligned}$$

Laws of Logarithm

$$\log_b x = y$$

$$b^y = x$$

$$\begin{aligned} \log_b b = 1 \\ \log_b 1 = 0 \\ \log_b b^n = n \end{aligned}$$

$$\begin{aligned} \log_b (x^n) = n \log_b x \\ \log_b (xy) = \log_b x + \log_b y \\ \log_b \left(\frac{x}{y}\right) = \log_b x - \log_b y \end{aligned}$$

Decibel Table

dB	Power Ratio	Intensity Ratio	dB	Power Ratio	Intensity Ratio
0	1.00	1.00	10	100	100
10	1.12	1.06	15	31.6	5.6
20	1.26	1.12	20	100	10
30	1.58	1.26	30	1000	3.16
40	2.00	1.41	40	10000	100
50	2.51	1.58	50	100000	31.6
60	3.16	1.78	60	1000000	100
70	3.98	2.00	70	10000000	3.16e6
80	5.01	2.24	80	100000000	100
90	6.31	2.51	90	1000000000	31.6e9
100	7.94	2.82	100	10000000000	1000

Common Conversions

Metric to Metric

x 10 ⁶	megra-	Length: meter (m)
x 10 ³	kilo-	Area: meter ² (m ²)
x 10 ²	hecta-	Volume: liter (L)
x 10 ¹	deka-	meter ³ (m ³)
x 10 ⁻¹	deci-	gram (g)
x 10 ⁻²	centi-	
x 10 ⁻³	milli-	
x 10 ⁻⁶	micro-	

Length:	meter (m)
Area:	meter ² (m ²)
Volume:	liter (L)
Mass:	gram (g)

English to Metric/English

$$\begin{aligned} \text{Length:} \\ 1 \text{ ft} = 2.54 \text{ cm} \\ 1 \text{ in} = 2.54 \text{ cm} \\ \text{Area:} \\ 1 \text{ ft}^2 = 144 \text{ in}^2 \\ 1 \text{ acre} = 43,560 \text{ ft}^2 \\ \text{Mass:} \\ 1 \text{ lb} = 454 \text{ g} \\ 1 \text{ lb} = 16 \text{ oz} \end{aligned}$$

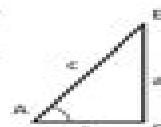
$$\begin{aligned} \text{Volume:} \\ 1 \text{ ft}^3 = 17.28 \text{ in}^3 \\ 1 \text{ yd}^3 = 27 \text{ ft}^3 \end{aligned}$$

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

Trigonometry

$$\begin{aligned} \sin A &= \frac{a}{c} & \text{Opposite} \\ & & \text{Hypotenuse} \\ \cos A &= \frac{b}{c} & \text{Adjacent} \\ & & \text{Hypotenuse} \\ \tan A &= \frac{a}{b} & \text{Opposite} \\ & & \text{Adjacent} \end{aligned}$$

$$\begin{aligned} \csc A &= \frac{c}{a} & \text{Hypotenuse} \\ \sec A &= \frac{c}{b} & \text{Hypotenuse} \\ \cot A &= \frac{b}{a} & \text{Adjacent} \end{aligned}$$



Boolean Algebra

Basic Rules

$$\begin{aligned} A + 0 &= A & A + 1 &= 1 & \overline{A} \cdot A &= 0 \\ A + 1 &= 1 & A \cdot 1 &= A & A + A \cdot B &= A \\ A \cdot A &= A & A \cdot B &= A \cdot B & A \cdot (\overline{B} + B) &= A \cdot B \\ A \cdot \overline{A} &= 0 & A \cdot \overline{A} &= 0 & (A + B)(A + C) &= A + BC \end{aligned}$$

De Morgan's

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

Math Formulas and Constants

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	10000	20	10
17	10001	21	11
18	10010	22	12
19	10011	23	13
20	10100	24	14
21	10101	25	15
22	10110	26	16
23	10111	27	17
24	11000	30	10
25	11001	31	11
26	11010	32	12
27	11011	33	13
28	11100	34	14
29	11101	35	15
30	11110	36	16

Decimal to Binary

2 ⁰ = 2 ¹ = 10 = 1
2 ¹ = 2 ² = 11 = 01
2 ² = 2 ³ = 12 = 001
2 ³ = 2 ⁴ = 13 = 0001
2 ⁴ = 2 ⁵ = 14 = 00001

Binary to Decimal

2 ⁰ = 2 ¹ = 1
2 ¹ = 2 ² = 01
2 ² = 2 ³ = 001
2 ³ = 2 ⁴ = 0001
2 ⁴ = 2 ⁵ = 00001

Binary, Octal & Hex

Group binary to 3 to convert to Octal

001	011	111	111001	0101	1111
1	3	7	5	F	15

Convert back by doing the reverse (ungrouping).

Temperature

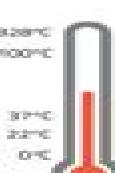
Lead melting pt.
Water boiling pt.

Conversion:

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

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

Human body temp.
Room temp.
Water freezing pt.



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Scott C. Dulebohn

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