

Basic Algebra cheat sheet

Order of operations

$$1+3 \times 2-5/(3-3 \times 5)^2$$

$()$, $[\]$, $\{ \}$

$$1+3 \times 2-5/(3-15)^2$$

$$1+3 \times 2-5/(-12)^2$$

$\wedge$ right to left

$$1+3 \times 2-5/144$$

$\times$, $\div$ left to right

$$1+6-0.03472222222...$$

$+$, $-$ left to right

$$=6.965277777777...$$



Notation

$$a \times b = a \cdot b = ab$$

$$a \div b = \frac{a}{b} = a/b$$

$$a^b = a^b$$

$$\sqrt{a} = \sqrt{a}$$

$$\log a = \log_{10} a$$

$$\ln a = \log_e a$$

Relationships

$$a+b=c$$

$$ab=c$$

$$c-a=b$$

$$c/a=b$$

$$c-b=a$$

$$c/b=a$$

$$a^b=c$$

$$\sqrt[b]{c}=a$$

$$\log_a c=b$$

$$\log_e a = 1/b$$

$$\sqrt[b]{c}=a$$

commutative property

$$a+b=b+a$$

$$ab=ba$$

associative property

$$(a+b)+c=a+(b+c)$$

$$(ab)c=a(bc)$$

distributive property:

$$ab+ac=a(b+c)$$

$$a-b=a+(-b)$$

$$a/b=a \cdot \frac{1}{b}$$

$$\sqrt[b]{a}=a^{1/b}=a^{1/b}$$

Absolute Value

$$|a|=a$$

$$|-a|=a$$

$$-|a|=-a$$

$$-|-a|=-a$$

factorial

$$4!=1 \cdot 2 \cdot 3 \cdot 4$$

$$0!=1$$

$$\frac{a}{0} = \text{undefined}$$

not commutative

$$a-b \neq b-a$$

$$a/b \neq b/a$$

$$a^b \neq b^a$$

Fractions

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

$$\frac{a/b}{c/d} = \frac{ab}{bc}$$

$$\frac{a}{b} + \frac{c}{d} = \frac{ad}{bd} + \frac{cb}{bd} = \frac{ad+cb}{bd}$$

$$\frac{a \cdot c}{b \cdot d} = \frac{ac}{bd}$$

$$\frac{a/b}{c} = \frac{a}{bc}$$

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

$$\frac{a}{b/c} = \frac{ac}{b}$$

$$\frac{ab}{cb} = \frac{a}{c}$$

$$\frac{ab}{a} = b$$

$$\frac{a^2}{a^3} = \frac{1}{a}$$

$$\frac{a}{ac} = \frac{1}{c}$$

Canceling in fractions

$$\frac{ab}{cb} = \frac{a}{c}$$

$$\frac{ab}{a} = b$$

$$\frac{a^2}{a^3} = \frac{1}{a}$$

$$\frac{a}{ac} = \frac{1}{c}$$

Exponentiation

$$a^0=1$$

$$x^a x^b = x^{a+b}$$

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

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

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

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

$$(x^a)^b = x^{ab}$$

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

$$(ab)^c = a^c b^c$$

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

$$a^{b^c} = (a^b)^c = \sqrt[c]{a^b}$$

$$(x+y)^2 \neq x^2+y^2$$

Roots

$$\sqrt{0}=0$$

$$\sqrt{1}=1$$

$$\sqrt{a^2+b^2} \neq a+b$$

$$\sqrt{a} \cdot \sqrt{b} = \sqrt{ab}$$

$$\sqrt{a^b} = a^{b/2}$$

$$\sqrt{a} = \sqrt{a}$$

$$b = \text{odd number}$$

$$\sqrt{a^2} = |a|$$

$$b = \text{even number}$$

$$\sqrt{a} \cdot \sqrt{b} = \sqrt{ab}$$

$$\sqrt{a^2} = |a|$$

$$\frac{a}{\sqrt{b}} \cdot \frac{\sqrt{b}}{\sqrt{b}} = \frac{a\sqrt{b}}{b}$$

$$\sqrt{a^2} = |a|$$

$$\sqrt{a \cdot a \cdot b \cdot c \cdot d \cdot d \cdot d} = a \cdot b \cdot \sqrt{b \cdot c \cdot d}$$

$$\sum_{x=1}^n x^2 = \frac{n(n+1)(2n+1)}{6}$$

Logarithm

$$\log_e 1 = 0$$

$$\log_e c = 1$$

$$\log_e a^b = b$$

$$a^{\log_e b} = b$$

$$\log_e(ab) = \log_e a + \log_e b$$

$$\log_e(a/b) = \log_e a - \log_e b$$

$$\log_e a^b = b \log_e a$$

$$\log_a b = \frac{\log_e b}{\log_e a}$$

Multiplying Algebraic Expressions

$$a(b+c) = ab+ac$$

$$a \begin{array}{|c|c|} \hline b & c \\ \hline ab & ac \\ \hline \end{array}$$

$$a^2 - b^2 = (a-b)(a+b)$$

$$(a+b)(c+d) = ac+ad+bc+bd$$

$$\begin{array}{|c|c|} \hline a & b \\ \hline c & ac \quad bc \\ \hline + & \\ \hline d & ad \quad bd \\ \hline \end{array}$$

$$(a+b)(a+b) = a^2+2ab+b^2$$

$$\begin{array}{|c|c|} \hline a & b \\ \hline a & a^2 \quad ab \\ \hline + & \\ \hline b & ab \quad b^2 \\ \hline \end{array}$$

$$(a+b+c)(a+b+c) = a^2+b^2+c^2+2ab+2ac+2bc$$

$$\begin{array}{|c|c|c|} \hline a & b & c \\ \hline a & a^2 & ab & ac \\ \hline + & \\ \hline b & ab & b^2 & bc \\ \hline + & \\ \hline c & ac & bc & c^2 \\ \hline \end{array}$$

Quadratic Equation

$$\text{If } ax^2+bx+c=0,$$

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

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