

Elementary Mathematics Cheat Sheet

by Sushi (aishanya_._) via cheatography.com/172469/cs/45896/

Quadratic Equation

The order of the equation depends on the highest power of the variable.

eg. This is a second order algebraic equation: $ax^2 + bx + c = 0$

The constants with the variables are called coefficients. here, a and b are coefficients of x^2 and x

The solution can be given by the quadratic formula: $x = (-b\pm\sqrt{b^2 - 4ac})/2a$

Binomial Theorem

For any positive integral index n: $(x+a)^n = {^nC_0}x^n + {^nC_1}x^{n-1}a + ... + {^nC_n}a^n$

where a is a constant and ${}^{n}C_{\,\bf r}=n\,!\,/\,\,\,r\,!\,\,(n-{\bf r})\,\,!$

the expansion of n! is n!=nx(n-1)x(n-2)...3x2x1

Trigonometric Ratios							
Angle x	0 _o =0	30°= π/6	45°= π/4	60°= π/3	90°= π/2		
sin x	0	1/2	1/√2	√3/2	1		
cos x	1	√3/2	1/√2	1/2	0		
tan x	0	1/√3	1	√3	∞		
1 radian=	180/ π	1°=	60' minutes of arc	1'=	60" seconds of arc		



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