

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: $\mathtt{ax^2} + \mathtt{bx} + \mathtt{c} = 0$
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:	$(x+a)^n = {}^n C_0 x^n + {}^n C_1 x^{n-1} a + + {}^n C_n a^n$
where a is a constant and	ⁿ C _r =n!/ r!(n-r)!
the expansion of n! is	n!=nx(n-1)x(n-2)3x2x1

Trigonometric Ratios							
Angle x	0°=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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