Cheatography

CSEC Additional Mathematic Formulae Cheat Sheet

by Edukatte (Edukatte TT) via cheatography.com/162224/cs/34341/

QUADRATICS

Quadratic Function	Completing Square
ax^2+bx+c	$a(x + h)^2 + k$
	$k + a(x+h)^2$

LOGARITHMS

$\log_a (PQ) = \log_a(P) + \log_a(Q)$

$\log_a (P/Q) = \log_a(P) - \log_a(Q)$

$\log_a P^b = b \log_a P$

$\log_a a = 1$

$\log_a 1 = 0$

SERIES & SEQUECES

Arithmetic Progression	Geometric Progression
$T_n = a + (n - 1)d$	$T_n = ar^{n - 1}$
$S_n = n/2 (a + l)$	$S_n = a(r^n - 1)/r - 1$ for $\|r\|>1$
$S_n = n/2 \{a + (n - 1)d\}$	$S_n = a(1 - r^n)/1 - r$ for $\|r\|<1$
	$S_\infty = a/1 - r$

COORDINATE GEOMETRY OF A LINE

Length of Line:

Midpoint of a Line:

Gradient of a Line:

Gradient of a Perpendicular Line:

CIRCLES

Equation of a Circle	Radius of a Circle

VECTORS

SECTORS & ARCS

TRIG IDENTITIES

COMPOUND ANGLE FORMULAE

DOUBLE ANGLE FORMULAE

DIFFERENTIATION

INTEGRATION

STATISTICS

PROBABILITY

KINEMATICS