

### 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
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### VECTORS

### SECTORS & ARCS

### TRIG IDENTITIES

### COMPOUND ANGLE FORMULAE

### DOUBLE ANGLE FORMULAE

### DIFFERENTIATION

### INTEGRATION

### STATISTICS

### PROBABILITY

### KINEMATICS

