

Quadratic Formula:

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

Area under a graph (Trapezium Rule):

$$\frac{1}{2} (a+b)h$$

Area of a Triangle:
 $1/2 \times \text{base} \times \text{height}$

Area of a Trapezium:

$$\frac{1}{2} (a+b)h$$

Area of a Circle:

$$\pi r^2$$

Circumference of a Circle:

$$2\pi r \text{ or } \pi d$$

Pythagoras' Theorem:

$$a^2 + b^2 = c^2$$

Trigonometry Ratios:

$\sin \theta = \text{opposite/hypotenuse},$

$\cos \theta = \text{adjacent/hypotenuse},$

$\tan \theta = \text{opposite/adjacent}$

Prism Volume:
area of cross-section
× length

Sphere Volume:

$$\left(\frac{4}{3}\right)\pi r^3$$

Cone Volume:

$$(1/3)\pi r^2 h$$

Cylinder Volume:

$$\pi r^2 h$$

Surface Area of Sphere:

$$4\pi r^2$$

Mean:
(sum of values) /
(number of values)

Probability:
favourable outcomes /
total outcomes

Speed:
distance / time

Density:

mass / volume

Pressure:

force / area