

30 Essential Facts for High School Maths

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Area of a triangle =
$$\frac{1}{2}$$
 x base x height
Area of a trapezium = $\frac{1}{2}$ (a + b) x height

Area of a circle =
$$\pi r^2$$
 Circumference = πD

Volume of a pyramid =
$$\frac{1}{3}$$
 base area x height

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

SohCahToa

Sine Rule
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Cosine Rule
$$a^2 = b^2 + c^2 - 2bcCosA$$

Area of a triangle
$$\frac{1}{2}abSinC$$

$$Speed = \frac{Distance}{Time}$$

$$Density = \frac{Mass}{Volume}$$

$$Pressure = \frac{Force}{Area}$$

$$y = mx + c$$

Perpendicular Gradient =
$$-\frac{1}{m}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$
$$x^2 + bx + c = (x + (\frac{b}{2}))^2 - (\frac{b}{2})^2 + c$$

$$x^{m} \times x^{n} = x^{(m+n)}$$

$$x^{m} \div x^{n} = x^{(m-n)}$$

$$(x^{m})^{n} = x^{mn}$$

$$x^{0} = 1$$

$$x^{\frac{1}{2}} = \sqrt{x}$$

$$x^{\frac{m}{n}} = \sqrt[n]{x^{m}}$$

$$\sqrt{ab} = \sqrt{a}\sqrt{b}$$

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

$$\sqrt{a} \times \sqrt{a} = a$$

Proving Congruency of triangles: SSS SAS AAS RHS

$$\begin{array}{cc} \text{Histograms:} & \text{Frequency} \\ & \text{Density} \end{array} = \frac{frequency}{Class\ Width} \end{array}$$

$$\frac{Exterior\ angle\ of}{a\ regular\ polygon} = \frac{360^o}{number\ of\ sides}$$

<u>High School General Math Formulas</u>

Thomas Griffiths

High School General Math Formulas:

Unveiling the Magic of Words: A Review of "High School General Math Formulas"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually aweinspiring. Enter the realm of "**High School General Math Formulas**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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