DT Math's Equation Sheet

Density Equation

$$Density\ \left(\frac{kg}{m^3}\right) = \frac{mass\ (kg)}{volme\ (m^3)}$$

Volume equations

$$Volume\ (Cylinder) = \pi r^2 h \qquad (r = radius, h = height)$$

$$Volume\ (Sphere) = \frac{4}{3}\pi r^3$$

$$Volume\ (Cube) = length\ \times width \times height$$

Circumference of Circle equations

$$C = \pi d\ or\ 2\pi r \qquad (d = diameter)$$

$$Diameter = 2\ \times radius$$

Area Equations

$$Area\ (Circle) = \pi r^2$$

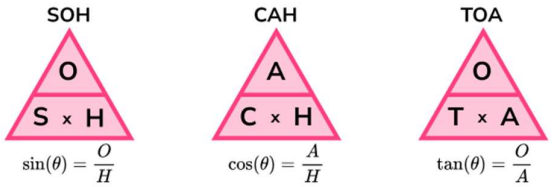
$$Area\ (Right\ angled\ triangle) = \frac{1}{2} \times base \times height$$

$$Area\ (None\ right\ angled\ triangle) = \frac{1}{2} \times a \times b \times \sin(c)$$

Histogram Equation

$$Frequency\ (Area) = class\ width\ \times frequency\ density$$

Trigonometric Identities (SOHCAHTOA)



Probability

$$For\ mutually\ exclusive\ events: P(A\ or\ B)\ =\ P(A)\ +\ P(B)$$

$$For\ independent\ events: P(A\ and\ B) = P(A)\ \times P(B)$$