

INDICES AND LOGARITHM

Basic of Index and Logarithm

$$1. y = a^x \Leftrightarrow x = \log_a y$$

Rules of Index

- $a^m \times a^n = a^{m+n}$
- $\frac{a^m}{a^n} = a^{m-n}$
- $(a^m)^n = a^{mn}$
- $(ab)^n = a^n b^n$
- $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}, b \neq 0$
- $a^{-n} = \frac{1}{a^n}, a \neq 0$
- $a^{\frac{1}{n}} = \sqrt[n]{a}$

Rules of Logarithm

- $\log_a MN = \log_a M + \log_a N$
- $\log_a \frac{M}{N} = \log_a M - \log_a N$
- $\log_a N^P = P \log_a N$

FORMULA OF TRIANGLE

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

Cosine Rules $a^2 = b^2 + c^2 - 2bc \cos A$

Area of Triangle = $\frac{1}{2} ab \sin C$

TRIGONOMETRY

Pythagoras' Theorem



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

Trigonometric Identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cos^2 \theta + \sin^2 \theta = 1$$

$$1 + \tan^2 \theta = \sec^2 \theta$$

$$1 + \cot^2 \theta = \operatorname{cosec}^2 \theta$$

Compound-angle

$$\sin (A \pm B) = \sin A \cos B \pm \cos A \sin B$$

$$\cos (A \pm B) = \cos A \cos B \mp \sin A \sin B$$

$$\tan (A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$$

Double-angle

$$\sin 2A = 2 \sin A \cos A$$

$$\cos 2A = \cos^2 A - \sin^2 A$$

$$= 1 - 2 \sin^2 A$$

$$= 2 \cos^2 A - 1$$

$$\tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$$

MEASUREMENT

Arc Length of a Circle

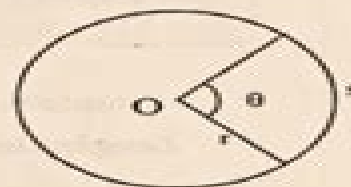
$$s = r\theta$$

Area of a Sector

$$A = \frac{1}{2} r^2 \theta$$

Area of a Segment

$$A = \frac{1}{2} r^2 \theta - \frac{1}{2} r^2 \sin \theta$$



SURFACE AREA AND VOLUME

Cylinder : $A = 2\pi rh + 2\pi r^2$

$$V = \pi r^2 h$$

Cone : $A = \pi x + \pi r^2$

$$V = \frac{1}{3} \pi r^2 h$$

Sphere : $A = 4\pi r^2$

$$V = \frac{4}{3} \pi r^3$$

Pyramid : $A = \text{area of four triangles} + \text{area of base}$

$$V = (1/3) \times (\text{area of base}) \times (\text{height})$$

GRAPH

$$y = ax^2 + bx + c, a \neq 0$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$y = mx + c$$

$$\text{Mid point} = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$\text{Distance} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$\text{Vertex, } x = -\frac{b}{2a}$$

SOLVING QUADRATIC EQUATION

$$1. x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$2. \left(x + \frac{b}{2}\right)^2 - \left(\frac{b}{2}\right)^2 + c = 0$$

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