

## INDICES AND LOGARITHM

### Basic of Index and Logarithm

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

### Rules of Index

$$1. a^m \times a^n = a^{m+n} \quad 5. \left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}, b \neq 0$$

$$2. \frac{a^m}{a^n} = a^{m-n} \quad 6. a^{-n} = \frac{1}{a^n}, a \neq 0$$

$$3. (a^m)^n = a^{mn} \quad 7. a^{\frac{1}{n}} = \sqrt[n]{a}$$

$$4. (ab)^n = a^n b^n$$

### Rules of Logarithm

$$1. \log_a MN = \log_a M + \log_a N$$

$$2. \log_a \frac{M}{N} = \log_a M - \log_a N$$

$$3. \log_a N^p = p \log_a N$$

## FORMULA OF TRIANGLE

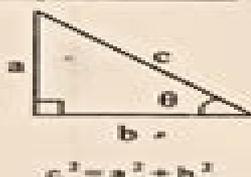
$$\text{Sine Rules} \quad \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\text{Cosine Rules} \quad a^2 = b^2 + c^2 - 2bc \cos A$$

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

## TRIGONOMETRY

### Pythagoras' Theorem



### 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

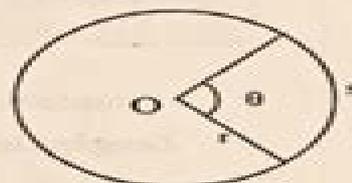
$$s = r\theta$$

### 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

$$\text{Cylinder: } A = 2\pi r h + 2\pi r^2$$

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

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

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

$$\text{Sphere: } A = 4\pi r^2$$

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

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

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

## 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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# All Formula Of First Year Engineering Maths

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## All Formula Of First Year Engineering Maths:

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