

# Basic Mathematics used in Physics

## Quadratic Equation

Roots of  $ax^2 + bx + c = 0$  are  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Sum of roots  $x_1 + x_2 = -\frac{b}{a}$

Product of roots  $x_1 x_2 = \frac{c}{a}$

## Logarithm

$$\log mn = \log m + \log n \quad \log \frac{m}{n} = \log m - \log n$$

$$\log m^n = n \log m \quad \log_2 m = 2.303 \log_{10} m$$

$$\log_{10} 2 = 0.3010 \quad \log_{10} 3 = 0.4771$$

## Arithmetic progression-AP

$a, a+d, a+2d, a+3d, \dots, a+(n-1)d$   
here  $d$  = common difference

$$\text{Sum of } n \text{ terms } S_n = \frac{n}{2} [2a + (n-1)d]$$

**Note:** (i)  $1+2+3+4+5+\dots+n = \frac{n(n+1)}{2}$

(ii)  $1^2+2^2+3^2+\dots+n^2 = \frac{n(n+1)(2n+1)}{6}$

## Binomial Theorem

$$(1+x)^n = 1 + nx + \frac{n(n-1)}{2} x^2 + \frac{n(n-1)(n-2)}{6} x^3 + \dots$$

$$(1-x)^n = 1 - nx + \frac{n(n-1)}{2} x^2 - \frac{n(n-1)(n-2)}{6} x^3 + \dots$$

If  $x \ll 1$  then  $(1+x)^n \approx 1 + nx$  &  $(1-x)^n \approx 1 - nx$

## Componendo and dividendo theorem

$$\text{If } \frac{p}{q} = \frac{a}{b} \text{ then } \frac{p+q}{p-q} = \frac{a+b}{a-b}$$

## Geometrical progression-GP

$a, ar, ar^2, ar^3, \dots$  here,  $r$  = common ratio

$$\text{Sum of } n \text{ terms } S_n = \frac{a(1-r^n)}{1-r}$$

$$\text{Sum of } \infty \text{ terms } S_\infty = \frac{a}{1-r} \quad [\text{where } |r| < 1]$$

## TRIGONOMETRY

$$2\pi \text{ radian} = 360^\circ \Rightarrow 1 \text{ rad} = 57.3^\circ$$

$$\sin \theta = \frac{\text{perpendicular}}{\text{hypotenuse}}$$

$$\cos \theta = \frac{\text{base}}{\text{hypotenuse}}$$

$$\tan \theta = \frac{\text{perpendicular}}{\text{base}}$$

$$\cot \theta = \frac{\text{base}}{\text{perpendicular}}$$

$$\sec \theta = \frac{\text{hypotenuse}}{\text{base}}$$

$$\text{cosec } \theta = \frac{\text{hypotenuse}}{\text{perpendicular}}$$

$$\sin \theta = \frac{a}{\sqrt{a^2 + b^2}}$$

$$\cos \theta = \frac{b}{\sqrt{a^2 + b^2}}$$

$$\tan \theta = \frac{a}{b}$$

$$\text{cosec } \theta = \frac{1}{\sin \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

$$\cot \theta = \frac{1}{\tan \theta}$$

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

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

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

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

$$\cos(A+B) = \cos A \cos B - \sin A \sin B$$

$$\tan(A+B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

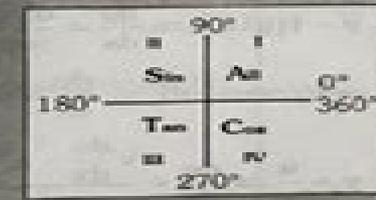
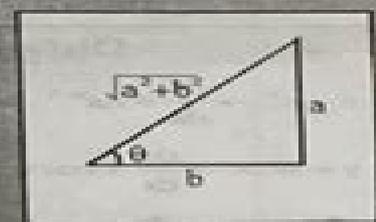
$$\sin 2A = 2 \sin A \cos A$$

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

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

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

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



# Basic Mathematics Vidyalkar

**India. Parliament. Lok Sabha**



## **Basic Mathematics Vidyalkar:**

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