

# Mathematics for Physics

There has been NO CHANGE in the latest Syllabus of JEE MAIN provided by NTA in this Chapter

## 1. QUADRATIC EQUATION

An algebraic equation of second order (highest power of the variable is equal to 2) is called a quadratic equation. The equation  $ax^2 + bx + c = 0$  ... (1) is the general form of quadratic equation where  $a \neq 0$ . The general solution of above equation is

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

If values of  $x$  be  $x_1$  and  $x_2$  then

$$x_1 = \frac{-b + \sqrt{b^2 - 4ac}}{2a} \quad \text{and} \quad x_2 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$

Here  $x_1$  and  $x_2$  are called roots of equation (1). We can easily see that

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

and, product of roots  $= x_1 x_2 = \frac{c}{a}$

### Illustration 1

Find roots of equation  $2x^2 - x - 3 = 0$ .

**Solution:**

Compare this equation with standard quadratic equation

$$ax^2 + bx + c = 0,$$

we have  $a = 2$ ,  $b = -1$ ,  $c = -3$ .

Now from

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

$$x = \frac{-(-1) \pm \sqrt{(-1)^2 - 4(2)(-3)}}{2(2)}$$

$$x = \frac{1 \pm \sqrt{1 + 24}}{4} = \frac{1 \pm 5}{4}$$

$$\Rightarrow x = \frac{6}{4} \quad \text{or} \quad x = \frac{-4}{4}$$

$$\Rightarrow x = \frac{3}{2} \quad \text{or} \quad x = -1$$

## 2. BINOMIAL EXPRESSION

An algebraic expression containing two terms is called a binomial expression.

For example  $(a + b)$ ,  $(a + b)^2$ ,  $(2x - 3y)^{-1}$ ,  $(x + \frac{1}{y})$  etc. are binomial expressions.

### Binomial Theorem

$$(a + b)^n = a^n + na^{n-1}b + \frac{n(n-1)}{2 \times 1} a^{n-2}b^2 + \dots + b^n$$

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

### Binomial Approximation

If  $x$  is very small, then terms containing higher powers of  $x$  can be neglected so  $(1 + x)^n = 1 + nx$

### Illustration 2

Evaluate  $(1001)^{1/3}$  upto six places of decimal.

**Solution:**

$$(1001)^{1/3} = (1000 + 1)^{1/3} = 10(1 + 0.001)^{1/3}$$

By comparing the given equation with standard equation

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

$$x = 0.001 \quad \text{and} \quad n = \frac{1}{3}$$

$$10(1 + 0.001)^{1/3}$$

$$= 10 \left[ 1 + \frac{1}{3}(0.001) + \frac{\frac{1}{3}(\frac{1}{3} - 1)(0.001)^2}{2!} + \dots \right]$$

$$= 10 \left[ 1 + 0.00033 - \frac{1}{6}(0.000001) + \dots \right]$$

$$= 10.003301 \text{ (Approx)}$$

### Illustration 3

The mass  $m$  of a body moving with a velocity  $v$  is given

$$\text{by } m = \frac{m_0}{\sqrt{1 - \frac{v^2}{c^2}}} \quad \text{where } m_0 = \text{rest mass of body}$$

$= 10 \text{ kg}$  and  $c = \text{speed of light} = 3 \times 10^8 \text{ m/s}$ . Find the value of  $m$  at  $v = 3 \times 10^7 \text{ m/s}$ .

**Solution:**

$$m = m_0 \left( 1 - \frac{v^2}{c^2} \right)^{-1/2}$$

$$= 10 \left[ 1 - \left( \frac{3 \times 10^7}{3 \times 10^8} \right)^2 \right]^{-1/2} = 10 \left[ 1 - \frac{1}{100} \right]^{-1/2}$$

$$= 10 \left[ 1 - \left( -\frac{1}{2} \right) \left( \frac{1}{100} \right) \right]$$

$$= 10 + \frac{10}{200} = 10.05 \text{ kg}$$

# 4353 01 Mathematics Unitised Scheme

**R Bogdan**



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