

## Newton-Raphson method:

**Example - 1:** Using the Newton-Raphson method to find a root of the equation  $x^3 - 3x - 5 = 0$ .

**Solution:**

$$\text{Let, } f(x) = x^3 - 3x - 5$$

$$f'(x) = 3x^2 - 3$$

$$\text{Putting } x = 2, f(2) = -3 < 0$$

$$x = 3, f(3) = 13 > 0$$

Since,  $f(2)$  is negative and  $f(3)$  is positive, therefore the actual root lies between 2 & 3.

First, we choose  $x_0 = 3$ . Now, using the relation

$$x_{n+1} = x_n - \frac{f(x)}{f'(x)}$$

# Solutions To Problems On The Newton Raphson Method

**Katrin Zwirgmaier**



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