

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

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