

Q. Use Muller's method with $x_0 = 4.5$, $x_1 = 5.5$ and $x_2 = 5$ to determine root of the equation $f(x) = x^3 - 13x - 12$

(Roots of this equation are $-3, -1$ and 4)

[Approximated Root 3.976487 Answer]

Error can be calculated as $\left| \frac{x_3 - x_2}{x_3} \right| 100\%$