

Assignment – 3

1. Write a C program to find the real root between 2 and 3 of the equation $x^3 - 4x^2 + 6x - 7 = 0$ using Newton-Raphson method correct up to 4decimal places.
2. Write a C program to find the real root between 2 and 3 of the equation $x^3 - 4x^2 + 6x - 7 = 0$ using Regular-falsi method correct up to 4decimal places.
3. Write a C program to find the real root between 2 and 3 of the equation $x^3 - 2x - 5 = 0$ using Newton-Raphson method correct up to 4decimal places.
4. Write a C program to find a root of the equation $f(x) = x \sin x + \cos x = 0$, correct to three decimal places, assuming that the root is near to $x = \pi$ using Newton-Raphson method.