Lab 6 Daily Evaluation (4 Marks)

1.

$$f(x) = \frac{-1}{13}x^3 + 2x^2 - 9.5x - 10$$

Use interval bisection method to find the root, x of f(x), on the interval [-10,0], where the error bound, $\delta = 10^{4}-2$

2.

Let f(x) be a function of x.

$$f(x) = x^5 + 2.5x^4 - 2x^3 - 6x^2 + rac{x}{2} + 2$$

- a. Find the actual roots of f(x) and print them.
- b. Given,

$$g_1(x) = \sqrt[4]{rac{1}{2.5}(-x^5+2x^3+6x^2-rac{1}{2}x-2)}$$

c. Plot the function in [0,2] and plot the root you found from b and verify by looking at the graph.

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