MATH 413
Fall 2007
Lab5

Exercise Set 2.4

Exercise 1 **(3 pt)**

Given the function $f(x) = 3x^2 + 4x - 7$.
Plot the function using maple.
Find the root of this function in the interval $[-3, 2]$ within 10^{-3} using the CD and the Newton's method with starting value $x = -3$ and starting value $x = 2$.

Exercise 2 **(4 pt)**

Like Exercise 1, only with the function $f(x) = 3x^3 + x^2 - 11x + 7$.

Exercise 3 **(3 pt)**

Like Exercise 1, only with the function $f(x) = 3x^4 - 2x^3 - 12x^2 + 18x - 7$.