Assignment 2

Iteration 1:

$$n = 0.001$$
, $-100) = x4 + 3x^2 + 10$, Let $x = 5$

$$\frac{\partial f(x)}{\partial x} = 4x3+6x \Rightarrow 4(5)^3+6(5)=530$$

$$\Delta x = -0.001$$
 $x = 5 - 0.53 = +4.4$

Tlevation 2:

Gradient at oc=+4.47