Pre class Assignment - 24

 θ_1 . $f(x) = x^3 - 3x^2 - x + 3$ for 270.

 $f'(x) = 3x^2 - 6x - 1$

for gradiert descert paret.

Starting at x=0.

1) $\Re f = \Re o - \Im f'(xo)$

 $2 > \chi_2 = \chi_1 - \gamma f'(\chi_1)$ $3 > \chi_3 = \chi_2 - \gamma f'(\chi_2)$

Now lets fail the approximation by using 7=5

 $\chi = \chi_3 - 5f(\chi_3)$

325 = 324 - 5f'(xy) 265 = 364 - 5f'(xy)

23 23 value after 3 rouds of GO. 92. $f(x) = x^4 - x^3 - x^2 + 1$

at x = -1 $y = \frac{1}{100}$

i) after Neveral iteration observe the value of of to which it seems to be getting Closer.

a) for the graph, we can use ordine plotting tools of software to usualize the function of (x) on the interval (-1,2).

3) If there on voice on the first part buch as not converging to an unempected value, it could be due to variety of reasons including poor choice of learning reasons