Find the globad. minimum point q value for the function $f(x) = x^4 + 3x^2 + 10$.

Do manual Calculations for two terations,

df/dx = 4x3+6x.

F'(x) = 4 x3+6x

first Kustion

n=0.1 (learny rate)

dflax at nel

dfal=4013+60) 01+60) 0+601 - (0)

F'(1) = 10

The New x value will be

x= x-2 f'(1)

X=1-0.1(10)

N-1-1

220

Shot on OnePlus

By srinath 📸 🥌

second meration a many munician. hardy soit (10/10) fex = x++3x++10. fis) = 4(0)3+6(0) of analoholo lawren 8 / 14 - HX 3 6 50 1/1 The New value does Not change. N=0-0-1(0) catherest - Herotian Because, it is the global minimum point The value of flood at x =0 13. fro) = (0) 1+3 (0)2+10 (00+810+= 10) 210 & he show is value will be (1) 7 (1-x = x (01)1.0-1=X 1-1-1

