沙山

NNDL - Assignment :-

 $f(x) = x^4 + 3x^3 + 10$ .

at x=0

1(x) = 10.

Lit, 7 = 3, 7 = 0 001, epoch = 2.

 $\frac{\partial 4(x)}{\partial x}\Big|_{x=3} = 4x^3 + 6x = 4(3)^3 + 6(3)$ 

= 126.

Dx = - yx 24(1) | x=3

= - (0.001) + 126 = - 0126.

7 = x + Ax = 3-0.126 = 2.874

1=141 = 141 = 2

272 (x).

01/1) | x = 2 2 34 = 4x3 + 6x = 4(2.2 34)3 + 6 (2.2 34)

= 112-199

D2 = - 7 = 2-(x) | x = 2-6 34

= \_ (0001) x113 199 = - 0.112

7 = 7 + D7 = 2 8 A4 - 0 . 11 2

x = 2 x1

1= 1+1 = 2+1 = 3

372 (1)

Continues