## NNDL. Assignment-1

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

Steps:

1) 
$$\eta = -0.001$$
,  $f(\pi) = \pi^{4} + 3\pi^{2} + 10$ , iter = 0,  
Man. = 2.,  $\pi = 5$ 

$$\frac{3f}{3\pi} = 4x^3 + 6\pi = 4(5)^3 + 6(5)$$

$$|x=5|$$

$$= 530$$

3) 
$$D = 4.3 + -(-0.001)(536)$$

$$\frac{2)}{\frac{\partial f}{\partial \pi}} = 4(5.53)^{3} + 6(5.53)$$

$$= 709.6$$

3) 
$$\Delta x = -\frac{18t}{3x} = -(-0.001)(709.1)$$

5) ites = ites +1,

=2. I wond manifely ballot and was

6) if (itel =Man.)

2 = 6.23 -> Minimum value point 1622-5 -> Minimum Value

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