Find the global minimum point and value you the function  $f(x) = x4 + 3x^2 + 10$ 

De manual calculations for two iterations.

$$\frac{df}{dx} = 4x^3 + 6x$$

first iteration longood whom with

let say x = 1

n = 0.01 (learning rate)

miss de mation= Induly with it is minuted

The new x value will be

Become iteration

$$\chi = 0$$
 $f(0) = 4|0\rangle^{2} + 6(6)$ 

The new value does not change

 $\chi = 0$ 

because, it is the global nurimum point

 $f(0) = (0)^{4} + 3(6)^{2} + (6)^{4}$ 
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