Find the global maximum point and value for the function f(x)=x4+3x2+10

-) manual calculations.

let x=2; n=0.01;

$$\frac{\partial h(x)}{\partial x} = \cos^2 x + 6x$$

$$\frac{\partial f(x)}{\partial x}\Big|_{x=2} = 4(2)^3 + 6(2)$$

$$\Delta x = -\eta(uy)$$

$$= -0.01(yy)$$

$$-) \quad \chi = \chi + \Delta \chi$$

$$= 2 - 0.044$$

= 1.56

$$\frac{\partial f(x)}{\partial x} \Big|_{x=1.56} = 4 (1.56)^{3} + 6 (1.56)$$

Dx = -0.01 x24.54 = 24.5 45

- 1-0.5 to Shad. - 5 which

スニメナムソ