Assignment - 2 1884100544 Find the global minimum point and value for the function, $t(x,y) = x^2 + y^2 + so$ _____ Do manual calculations for two iterations Steps: n=0.01, epochs=2, x=2, y=3 Step2, it=1 step3; $\frac{\partial f}{\partial x} = 2x$ = 43f 3y | y=3 = 2y = 6 Step4: De de 37 か=-not -(0.02) (4) DX = - (0-04) (6)

= -0.06

Steps:
$$x = x + Ax$$
 $= 2 + (-0.04)$
 $= 4.96$
 $y = y + Bx$
 $= 3 - 0.06$
 $= 2.74$

Steps: $if(it > epochs) = (2 > 2)$

reat

else

 $f(it) = 2.74$
 $f(it) = 2.76$
 $f(it) = 2.76$
 $f(it) = 2.74$
 $f(it) = 3.92$

Hep4:
$$\delta x = -(0.04)(3.72)$$

$$= -0.039$$

$$\Delta y = (0.01)(5.86)$$

$$= -0.056$$

Step5: $\lambda = 1.9(-0.039)$

$$= 1.92$$

$$y = 2.94 - 0.058$$

$$= 2.882$$

Step6: $\lambda = 3$

$$= 1.92$$

$$x = -2.08$$

$$x = 1.92$$

$$x = 1.92$$

$$x = 2.882$$