Assignment - 3(A) 17 KH1A0490 1 (x,y) = 3x2 + 5 ey + 10 f) · Venkata Raman n=0.01, 2=2, y=3, epochs = 100, iter = 1 I tenshion -1 $\frac{2f}{2x}\Big|_{x=2} = 6x = 6x = 12$ $\frac{\partial f}{\partial y} \Big|_{y=3} = -5 \times e^{3} = -0.24$

 $\Delta 7 = -\eta \frac{2f}{2x} / x = 2 = (0.01)(12) = -0.12$ $\Delta y = -\eta \frac{\partial f}{\partial x} \Big|_{y=2} = -(0.01)(0.24) = 0.0024$ $n = n + \Delta n = 2 - 0.12 = 1.88$ y= y+ sy = 3+0.002y = 3.0024

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$$\frac{2f}{2\pi} \left[\chi = 1.88 \right] = (6)(1.88) = 11.28$$

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n = x + 17 = 1.88 - 0.1128 = 1-76 y = y+ dy = 3.002 +0.0024 = 3.004.