Assignment-3 (A)

$$\frac{\partial f}{\partial x}\Big|_{x=2} = 6x = 6(2) = 12$$

$$\frac{\partial f}{\partial y}|_{y=5} = -5(e)^5 = -0.034$$

$$pu = -\lambda \frac{3y}{3t} \Big|_{x=1}$$

$$\Delta y = -\eta \frac{\partial f}{\partial y} \Big|_{y=5}$$

$$DX = -9 \cdot \frac{37}{32} \Big|_{M=2}$$

$$= -(0.01)(11.28)$$

$$= -0.1128$$

$$\Delta y = -0. \frac{\partial f}{\partial y} \Big|_{y=5}$$

$$= -(0.01)(-0.034)$$

$$= 0.00034.$$

$$x = x + 4x$$
= 1.88 - 0.1128
= 1.46