Iteration - 1.

2; y: 7.6 157 Sample -1

7.1 174 Step 1: [7.6, 157] n=0.01, m=1, c=-1

2: dE | = - (ya - mx; a - c) (-x; a) = (157-7.6-(-1))(7.6)

= (150 . 4) (7.6)

= 143.04. de | c=-1 = - (y: a - mx; a - c) = - (157 - (1) (1.6) - (-1)) = - (158 - 7.6)

= -150.40

Step 3: $\Delta m = -\eta \frac{\partial E}{\partial m} = -(0.01) (1143.04)$

 $\Delta C = -\eta \frac{\partial E}{\partial C} = -(0.01)(-150.4)$

step 4: m = m + 1 m = 1+ (-111.43) = -10.43

C = C+ DC = - 1+ (1.504) = 0.504.

```
Iteration - 2
 S, E7.6, 157], n= 0.01, m=-10.43, C=0.504.
 Sz: dE (m=+0.43=(157-(-10.43)(7.61)-0.54)(7.61)
        = (157 + (10.43)(7.61) - 0.504) (7.61)
         = (156.496 + 79.372) (7.61)
= 1794.955
  Tele=0.504 = - (157 - (-10.43)(7.61) - 6.54)
                 = -235.868.
 S3: sm = - n de = (-0.01 x 1794.95t) = -17.949.
  \Delta C = -\eta \frac{\partial E}{\partial C} = (-0.01)(-235 - 868')
Sy: m = m + sm = -10.43 + (-17.943)
2 -28.379
   C= e + B C = 0.50 y + 2.358
= 2.862
Sample -2 Iteration -1
 Sis (7.1, 174) n=0.01, m=1, c=-1
 S_{2}: \frac{\partial E}{\partial m}|_{m=1} = -(y; ^{9} - mx; ^{9} - r) - x; ^{9}.
                  = (174 - (7.1) - (-1))+7-1
                   = (175-7.1)(7.1)
```

$$\frac{\partial F}{\partial c} \Big|_{c=1} = -(y; ^{9} - mx; ^{a} - c)$$

$$= -(114 - (1.1))^{4} - (-1)^{4}$$

$$= -167.9$$

$$5_{3}: \Delta m = -\eta \frac{\partial F}{\partial m} = -(0.01) | 1192.09$$

$$\delta (= -\eta \frac{\partial F}{\partial c} = -(0.01) (-167.9)$$

$$= 1.679$$

$$S_{4}: m = m + \Delta m = 1 + (-11.920) = -10.92 \delta$$

$$C = C + \Delta C = -1 + 1.679 = 0.679$$

$$\frac{\partial F}{\partial m} \Big|_{m=-10.92} = (174 - (-10.92)(7.1) - 0.67(7.1))$$

$$= (173.3217 (10.92 + 7.1)) (7.3)$$

$$= 1781.076$$

$$\frac{\partial F}{\partial c} \Big|_{c=0.679} = -(174 - (-10.92)) (7.1)$$

$$= (1781.076)$$

= - 250.853

$$\delta m = -\eta \frac{dE}{dE} = (-0.01) \times (1781.056)$$

$$S_{4}$$
:
 $m = m + \delta m = -10.92 - 17.81$
 $= -28.73$

(es) (11.5 à 50.01) +15 x . 2(1)