- 2) 1t=1
- 3) Samplez 1

4) 
$$\frac{\partial E}{\partial m} = -(4i - m\pi i - c)\pi i$$

$$= -(3i4 - 1(0i2) - (-1))0i2$$

$$= -(3i4 - 0i2 + 1)0i2$$

$$\frac{\partial E}{\partial m} = -0.84$$

$$\frac{\partial E}{\partial m} = -(4i - m\pi i - c)$$

$$= -(3i4 - 1(0i2) - (-1))$$

$$\frac{\partial E}{\partial c} = -(4i - m\pi i - c)$$

$$= -(3i4 - 1(0i2) - (-1))$$

$$\frac{\partial E}{\partial c} = -(4i2 - m\pi i - c)$$

5) 
$$\Delta E_{z} = -\eta \frac{\partial E}{\partial E_{z}} = -(0.1)(-0.44)$$

$$= +0.084$$

$$\Delta C_{z} = -\eta \frac{\partial E}{\partial C_{z}} = -(0.1)(-4.2)$$

$$= 0.42$$



- 7) Sample = 1+1=2.
  - 8) 1/(2/2) x

5) 
$$\Delta m = -\eta \frac{\partial E}{\partial m} = -(0.1)(-1.76)$$

$$= +0.176$$

$$\Delta C = -\eta \frac{\partial E}{\partial C} = -(0.1)(-4.4)$$

$$= +0.44$$

$$\frac{\partial E}{\partial m} = -(y_1 - mm_1 - c)(m_1)$$

$$= -(3.4 - 126(0.2) - (-0.14))0.2$$

$$= -(3.4 - 0.256 + 0.14)0.2$$

$$= -(3.264)0.2 = -0.656 t$$

$$\frac{\partial E}{\partial c} = -(3.4 - 1.26(0.2) - (-0.14))$$

$$= -3.244$$

5) 
$$\Delta m = -\eta \frac{\partial E}{\partial m} = -(0.1)(-0.466k)$$
  
=  $+0.0666k$   
 $\Delta l = -\eta \frac{\partial E}{\partial c} = -(0.1)(-3.284)$   
=  $+0.3284$ 

6) 
$$m = m + 4m = 1.26 + 0.0656$$
  
= 1.325  
 $C = C + AC = +0.14 + 0.3264$   
= 0.158

(a) 
$$\{\{(2 \times 2)\}\}$$

(b)  $\{\{(2 \times 2)\}\}$ 
 $= (3.8 - 0.53 - 0.18)$ 
 $= (3.8 - 0.53 - 0.18)$ 
 $= (3.062)$ 
 $= (3.062)$ 
 $= (3.062)$ 
 $= (3.062)$ 
 $= (3.062)$ 
 $= (3.062)$ 

$$5)\Delta M = -\frac{\partial E}{\partial m} = -(0.1)(-1.232)$$

$$= 0.1282$$

$$AL = -\eta \frac{\partial E}{\partial c} = -(0.1)(-3.082)$$

$$= 0.3062$$