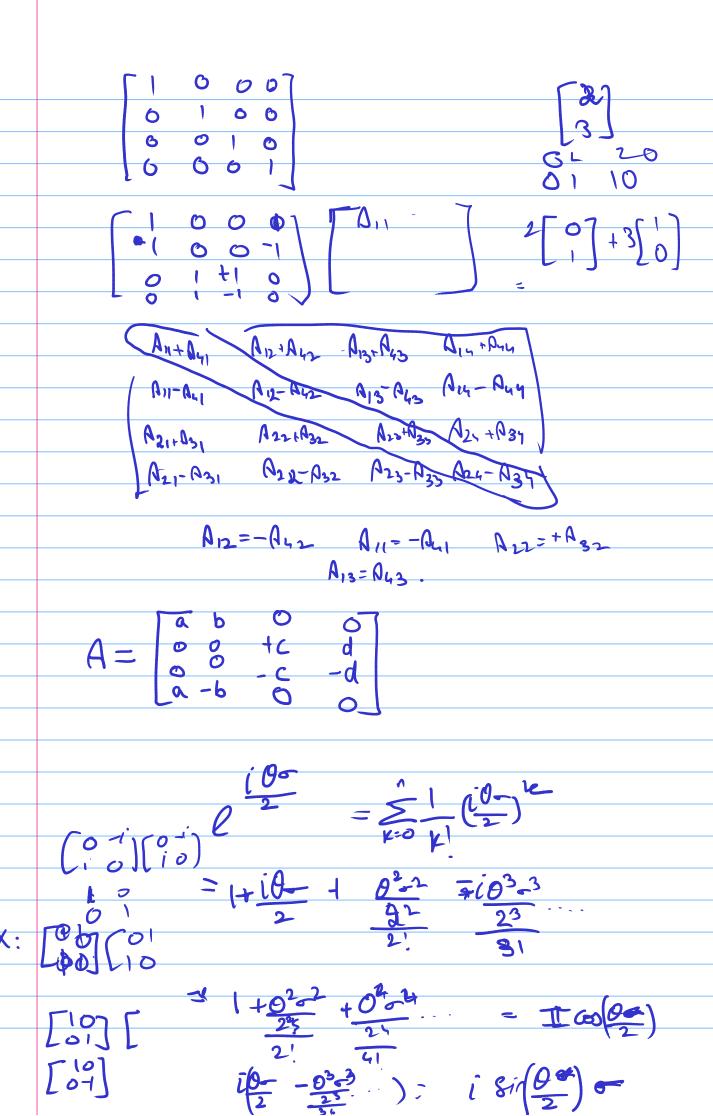
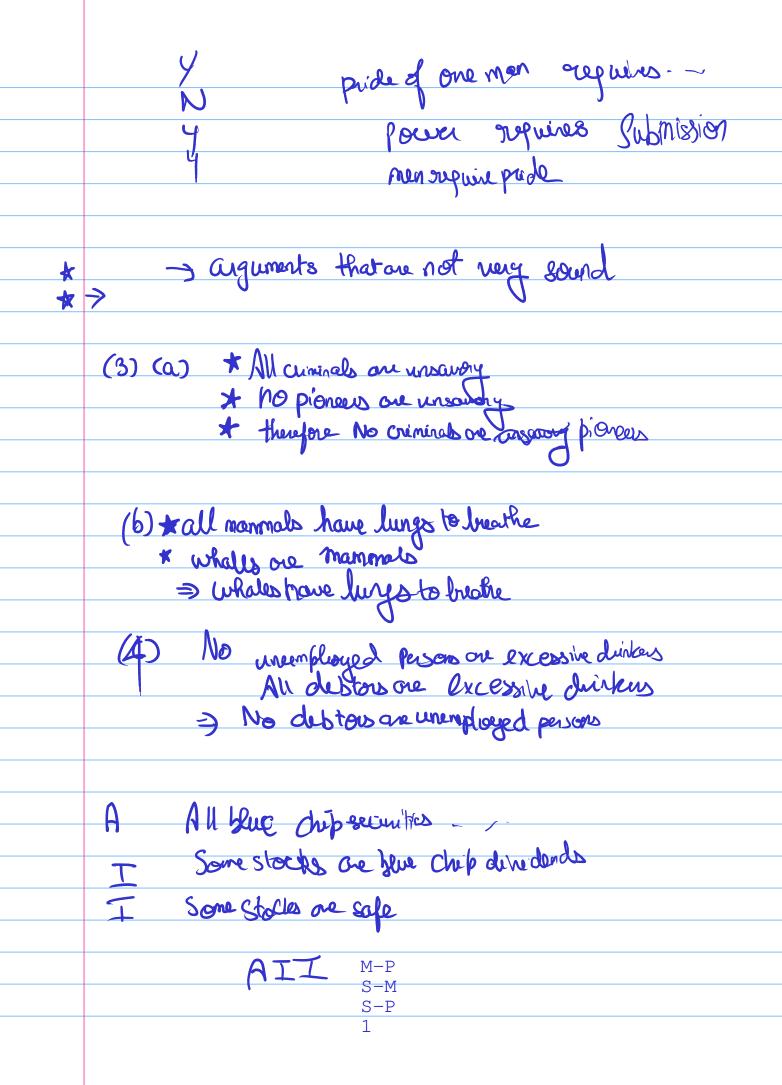
12 < (HED | x) < x | x ( x ( x ( x ( E) ) ) a > < b) (-1) a.b+c.dc/d120> < 2120 2> < x1a> < b1  $\frac{1}{2^{3/2}} \left( |000\rangle + |001\rangle + |010\rangle + |010\rangle + |100\rangle + |01\rangle$ 1 ( loos) + (001) + (010) + (100) - (101) 1 +1110>+1111>) (2 | 4x4 | -1)  $(14) - \frac{2}{212} | 101)$ (214×414) - I14> -21 14×4119> +2[101)





```
G = (V, T, P, S)
Program -> begin SMove
SMove -> (left | right | fwd | bkwd ) MMoves
                                              end
MMoves -> (left | right | fwd | bkwd) MMoves
                                              end
                    Program
               begin SMove
                     left MMoves
                        right
                                MMoves
                        backward
                                    MMoves
                                   end
 <SMove>.value ->  program>.value
 <SMove> -> end
 <SMove>.val = 0
 <MMoves1>.value
 <MMoves1>.value = <SMove>.value
 <Mmoves> -> end
 <MMoves>.val = <MMoves>.val
 left <MMoves2>
 <MMoves2>.val = <MMoves1>.val -1
 right <MMoves2>
 <MMoves2>.val = <MMoves1>.val+1
 forward<MMoves2>
 <MMoves2>.val = <MMoves1>.val+1
 backward<MMoves2>
 <MMoves2>.val = <MMoves1>.val-1
```

 $\{x = 9\}$ postcondition???? H[YIX] = H[XI4] - H[X] + H[Y] = - [ p(x,y) (or (p(Y)xx)) dxdy - If bu, y) (y (p(x)) HCX/y)+HCx) - HLX)  $L: \int \Sigma |Y-XW|^2$  Dxin = (Y-XW)(Y-XW)  $W \qquad AXI \qquad MD DXI$ =  $(v^Tx^T-y^T)(y-xw)$ min (wxy-wxxxw-yy+yxw) (2yTxW - (xw)TxW-YTY)  $0 = 2y^{T}x - 2x^{T}xw$   $2x^{T}xw = 2y^{T}x - x^{y}$   $2x^{T}xw = 2y^{T}x - x^{y}$   $2x^{T}xw = 2y^{T}x - x^{y}$ 

$$U(x(a,b) = \frac{1}{(b-a)} a \le x \le b$$

$$\int_{b-a}^{b-1} dx = \int_{a}^{b-1}$$

PCA 3)(a) mys

AX= AX Min | 12x3|

Ax, = 3x,

 $\lambda$ 

 $Sx = \lambda x$   $Sc_1 = 3c_1$   $Sc_2 = 1c_2$  $Sc_3 = 0.2c_3$ 

 $S[C_1C_2C_3] = [3C_1 | C_2 | 0.2C_3]$   $[C_1C_2C_3] = S[3C_1 | C_2 | 0.2C_3]$ 

1-72y2 hty-1=0 t+x (1-x2-y2) + 2(x+y-1) スニナシ ソーシュ value = 1 f(x,y)=1 \( \D \X fix 9; (x) j=1,2--- J Tfix) = Z Xx VS(x) + Z px Vhx(x) Such that gicx) = 0 + jen Jelij he(1)=0 theN, he[1,N]