1- Portition Modrices

x'x - [x'x, x'x] [x'2 x2 x'x2]  $\beta = (x'x)^{-1}x'y \times = [x, x_2] \times = [x'] \times y = [x'y]$   $A = [x'x] \times = [x'y] \times = [x'y]$ 

(x'x)-1/= (x'x, -x'x2(x2x2)-1 x'x,]-1 -[x'x,-x'x2(x2x2)-1 x'x2(x2x2)-1](x'y) -[x'x,-x'x,(x,x)] x'x, (x,x) [x'x,-x'x,(x,x)] [x'x,-x'x,(x,x)] [x'x]

> [x,x,-x,x,(x,x,),x,x,),x,x,], [x,x,-x,x,(x,x,),x,x,,],x,x,(x,x,),x,x,

> [x,x,-x,x,(x,x,),x,x,],[x,-x,x,x,(x,x,),x,]]

=> [x, x, -x, P2x,] [x, -x, P2] 1

= [x,'x,[1-P]] [x,'-x,P]

= (x, x, M2) (x, -x, P2) y= P,

(x1x, m2)-1x1 (1-P2) y= B,

B,=(xix, M2) -1 x, M2)

Signeth Shith

> - [xix\_-xix,(xix,)-1x,x]-1 xix,(xix) xiy + [xix\_-xix,(xix,)-1x, xi]-1 xi > (xi x, [1-P,])" xi [1-P,]) > [x'x-x'x(x'x)-'xx]-'[-(x'x,(x'x)-'x')+x']y B2 = [x2 x2M,] -1 x2 M1 y [xix,-xiP,x] [xi-xiP,]