4 = Kin B1 + Nei B2 + U: = ((B) + Ui SOL) WTS: BI = (X/MEXI) / X/MX_T. M= X1/B1 + X2/B2 + WI. I multiply both LHS and RHS by XIMX2 #/Mx= 1 = x/Mx x/ Bi+ x/Mx x2 Bi+ x/Mx UI. = H/M_ X/B, Since o Mxx 1/2 = (IN - 1/2 (1/2/2) 1/2) 1/2 = 42 - 42(42/42)-42/42=1/2-1/2=0. Q. HI'MK2 11 - H'[IN- 42 (1/42) - 4/2] WI = X/M - X/42 (4/2/42) - 4/2/M)

Therefore, B1 = (x1/M/x2/X1) - 1/4/M/x-1. 11

#2. (b) X1: = N2:T2+ Vi ベルニ からむ+な * Multiply * Mys to the auxiliary begression. XIMX2 X1 = XIMX2 X2 fr2 + XIMX2 V. = X/[IN-X2(X2/X2) - X2-1/X2-1/2 + X([IN-42 (42/42) / 1/2] () = 4/1/2- 4/1/2 (42/42) 4/2/12/2 + 4/4 - 4/42 (42/42) - 4/42 = 1/6. Thus, Q = M/2/1 BI= (G'C)-'G'Y = [(Mx2 */1)' Mx2 */1]-(Mx2 */)" = (#/M/1/M/2 XI) - (M/1/M/2) XI (by Mx2 Mx2 = Mx2, = (X1'MX2Hi) H1'MX2 T

Mx2 = Mx2) 1