of Z is as see one in content

1) 2-221+22-212

Constraints: - 221+ 322 6.
221 + 22 6 21, 2220

Solo- consider non -ve conditions 21,712 20.

as inequality constraints and add slack

variables and express them as equations.

 $max(z) = 2a_1 + a_2 - a_1^2$

Subject - 221+ 322+512=6

222+22+52=49

-71+812=0

-32+25 =0.

we form lagrange function.

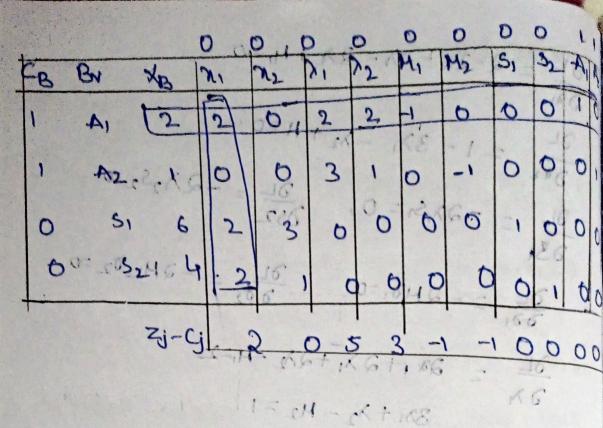
[(2) 1, 0,H) = (2017 22-7,2) - 1, (2017322+3-6)

- 1/2 (221+32+522-4) + - H(-2,+812)

- H2 (-22+022)

The necessary conditions are.

4 18 TG = 15 - 54 - 54 - 54 + HI = 0 0 0.731 0.00 00 100 = - 2 High = 0) 1 31 = 1-2 Hz 02 =00 37 = 2x 1+2x -41=20-15 3/1+/2-H2=1 0 161 cd 18 of Marct 3act 512 =6; 6 ax va 80 000001-201+22+52-19. Onsi= 1282=00 0 0 1 sA. 10 0 MIRI = M282 =0 . 11 1/2 20 PI 10. 20 0 0 MISI = M2 82 =0. min z* = A1+A2 221 + 221 + 22 - HI+ AI = 2 0-6 3 11 + 12 - M2+A2=1 2 11 + 3m2+512 =6 · 221 + 22 +522 =4



XB B 22 | DE 120 HI 5, -1/2 No G 0. 7j-G 0 -1 000 +166+186

SATEM - CK + IKS

2 813 + 370 + 512 = 6 .

= 50 + 50 + 10 G

21 - 3/3 22= 14/9. 12=0 H1=0 H20 52=10|9 1=13 maa $z = 2(3) + (14/9) - (3) = \frac{22}{9!}$ Optimum values- [5] 00/1) A 0 0 81, 0 51 = 33 SA 0 1, 0 51 = 33 ० १ हो ० हो हो हो १ ० व हो १ ८ 1-001-0, 1800 B-E it is an Hark Kar is all a at 0 0 sls . ip 0 0 1 sls 00 21-0 81 100 81 100 0 el pls- en ph- o 1 511- 614- 612 blo- 00 0.6101 75 0 00000000