Where, 0=(2~5+p+x) x = 22+p+x = a= 18101064 mod 3 => x+49+22 -x7 -47-27+27=8=--(1) 16=18101064 mod 5 (1) mp prit avirab WOM =4 0=0+0-0-0-10c2-0+0+1 c = 18101064 mod 7 0 = RCQ -1 G = 2 1 = GCS (= f(niyiZ) = n+4y+2z -) objective function g(xiyiz) = xx+yx+zx=2 -> Constraint woll Lagrange multipliere methodio - 0 +10 +0 Vf (niyiz) = 7 # q (niyiz) 1 = 1/15 f (niyiz) - 7 * q (niyiz) = 0 TAN Slack Variable

Now detrivating eqn(1) fattitually by
$$X$$
, $1+0+0-2\pi\Omega-0-0-0+0=0$

F(MM , Z) = X+44+22

THIND F A A = (SPEIN) IV

- (AP VI) + V - 1 & VAN) , F

$$=) 1 - 2 \times \lambda = 0$$

Now Partially by - y, ver = (= 100)

$$\Rightarrow y = \frac{4}{2\lambda}$$

$$\Rightarrow z = \frac{2}{2\lambda}$$

$$N_{0}W_{1}$$

$$\chi^{\prime}+\chi^{\prime}+\chi^{\prime}=2$$

$$20.1 \text{ Cost } 0.5$$

$$2x + y^{2} + 2 = 2$$

$$\Rightarrow \left(\frac{1}{2}\right)^{2} + \left(\frac{2}{7}\right)^{2} + \left(\frac{1}{7}\right)^{2} = 2$$

$$\frac{1}{40^{10}} = \frac{1}{40^{10}} = 2$$

$$=$$
 $\frac{21}{49^{v}} = 9$

$$= \pm \sqrt{\frac{21}{8}}$$

$$= \pm \sqrt{\frac{21}{8}}$$

$$= \pm \sqrt{\frac{21}{8}}$$

= = = = =

7= ==

1 600 M

10 - 10 E

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$$\sqrt{2-\frac{2}{2.63}1.62}$$

$$\frac{1}{2} = \frac{1}{1.62}$$

when,
$$N = \frac{1}{243} - 1.62$$

$$N = \frac{1}{2*(-1.62)} + (55.1-) + (15.0-) - (51.00)$$

$$N = \frac{1}{2*(-1.62)}$$

$$= -0.31$$

$$y = \frac{2}{-1.62}$$
 $z_1 \cdot z_2 = \frac{2}{1.62}$
 $z_1 \cdot z_3 = \frac{2}{1.62}$
 $z_1 \cdot z_2 = \frac{2}{1.62}$

$$z = \frac{1}{-1.62}$$

$$z = -0.61$$

Now,

$$G_{1412}$$
 = (0.31 + 1.23 + 0.61)
 F_{6442} = (0.31 + 4*1.23 + 2* 0.61)
= 6.45

$$G_{114}(7) = (-0.31, -1.23, -0.61)$$

$$f(n14) = ((-0.31) + 4(-1.23) + 2(-0.61))$$

$$= -6.45$$

$$So, max = 6.45$$

$$Min = -6.45$$

$$So, I = 10$$

(310912) = (0.3111.2313.11) f(00012) = (0.311441.2342311) = (3.45)