Exercise (9) 4.4 11 W112 S.T. Y: (UTZ:+0) 7.L , FOR LEIGH a) 1(w,0,x). (W112+ 2x; (1-Y; (Jz; +0)) b) Min (||W||2 + Max 3 x: (1-4; (UTz; +0))) · SLATER'S GODITION: 3 20 ED: f: (20) < 0 (STRICT FUS: 6: LITY) ie. there's a Pata Point that Sottisfies All Constraints Cliversly Serenstle)
Which GARDWILLS A ZERO DUNLITY GAR. Z(W,O, X)= / 11 W112+ 2 x: (1- Y: (WTz; +0)) 02 = W- & x; Y: x; =0 => W= & x; Y; x; 02 = - 2 x; y; = 0 =) 2 x; y; = 0

What:

d>> n -> Dool Prosten (n-Dihausiount Prosten)

n>> d -> Primal Prosten (d-Dihausioual Prosten)

Word: W. Z &; Y; K; Ø=? → UTx (;) € ... € WTz (;) L> Ø= UTx (;)-L

5.T. Y; (wī. pa) + 0) 7 L AUTO x; 20, Y; 12x.2

a) let:

YE Man, Where Pis=Y; Ys K(z;, x;)

9E M , Where Every Element Eausls -1.

G=-In=[1...]

LER", WERE WERY WELLE ROUNTS O

A = YT = [Y, , ..., Ym ]

the Dupl SUM CAN 62 WRITTEN AS:

him tetex + qTx

S.T. Gr 1h

AND AL = 5