the # of hours used in dept 1 the # of hours used in dept 2 # of assembled products X, \$100 -> # of hours available in oleft 1 -> # of hours avalible in oleft 2 x2 / 110 1050 xy (1200 -> rays of assurbed proluts - we need at least of each parts units -> part 1 units 7x1 + 6x2 > y -> put 2 units 6x, + 11 x2 > 7 -> part 3 units 9x, + 5x2 } - the total # of types produced in all parts =  $(7x_1 + 6x_2) + (6x_1 + 11x_2) + (9x_1 + 5x_2) =$ 

22x, + 22x2

ne produce y assembled products force each part

so the constaint regrating the storge space

22x, +22x2 -3y < 200

Sind LP:

min 25 x, + 12.5 x2 + 07

SIt

X, 1/ 100

X2 \$ 110

1050 \$ 2 \$ 1200

7x1+6x2 > 7

6x, + 11x2 > y

9x, + 5x2 > y

22x1 +22x2 -34 {200

x1, x2, 7 %0