Maximize Z = Yx + y

Suchhart

Xty = 50

Panh (0,50), (50,0) son: towards

3×44 ≤ 90

panh (0,90) (30,0) san: Towards

7.770

Scale X-axis 1cm= lounis Y-9715 1cm= 100m11.

B(20,30) Fearibu legion : (bounded

(50,0)

Consta points

value of objective function

z = 4x + y

A (30,0)

B (20,30)

Z = 80 + 30 = 110

c (0,50)

Z = 0+50 = 50

8 Max. Z = 120 ANS :- 2 13 Maximum at (30,c)

ONS2 - Maximir & Minimire

Z = 3x +94 Such fact

points (0,20), (60,0) som: Towards

01= F+x

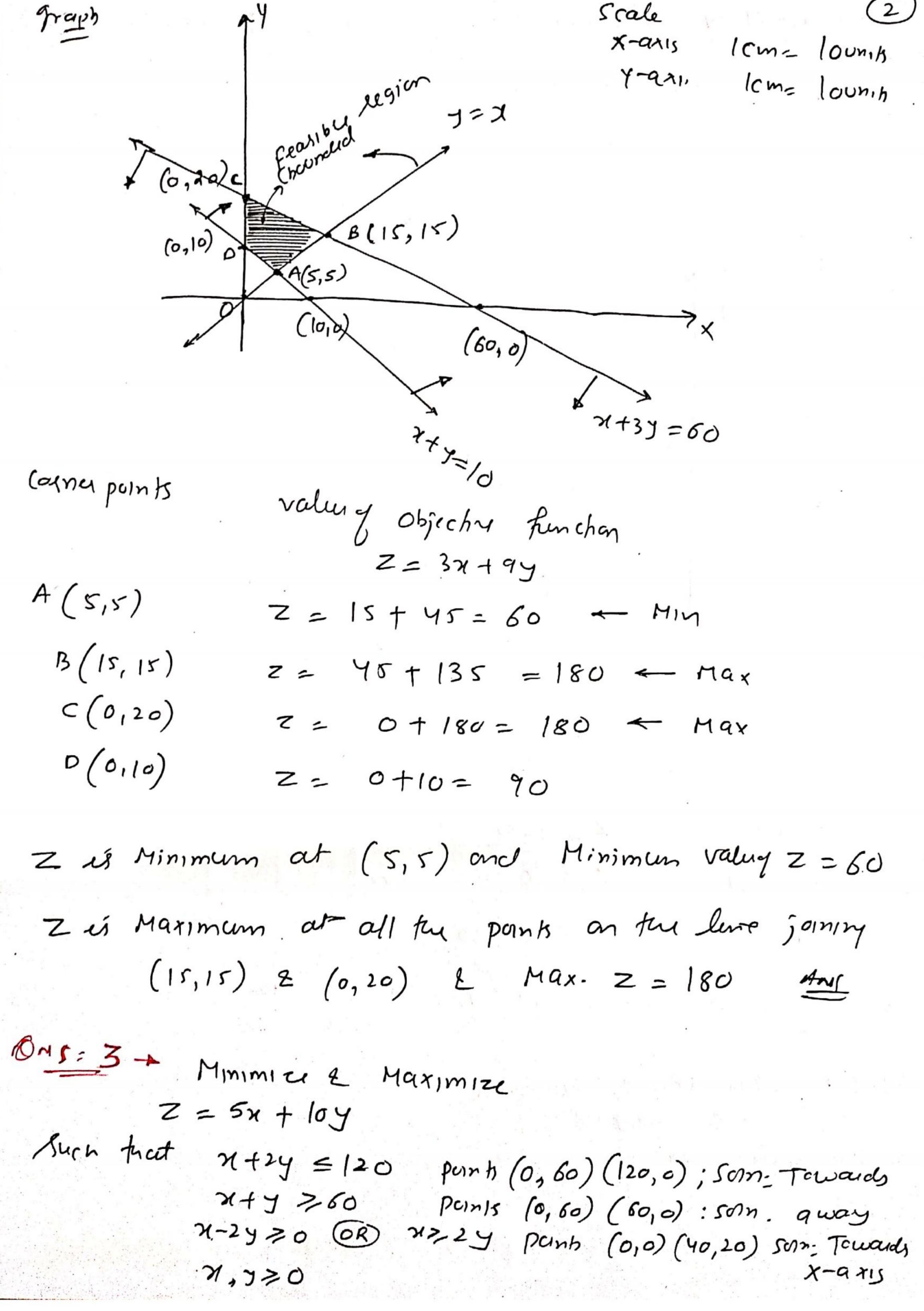
X+34 60

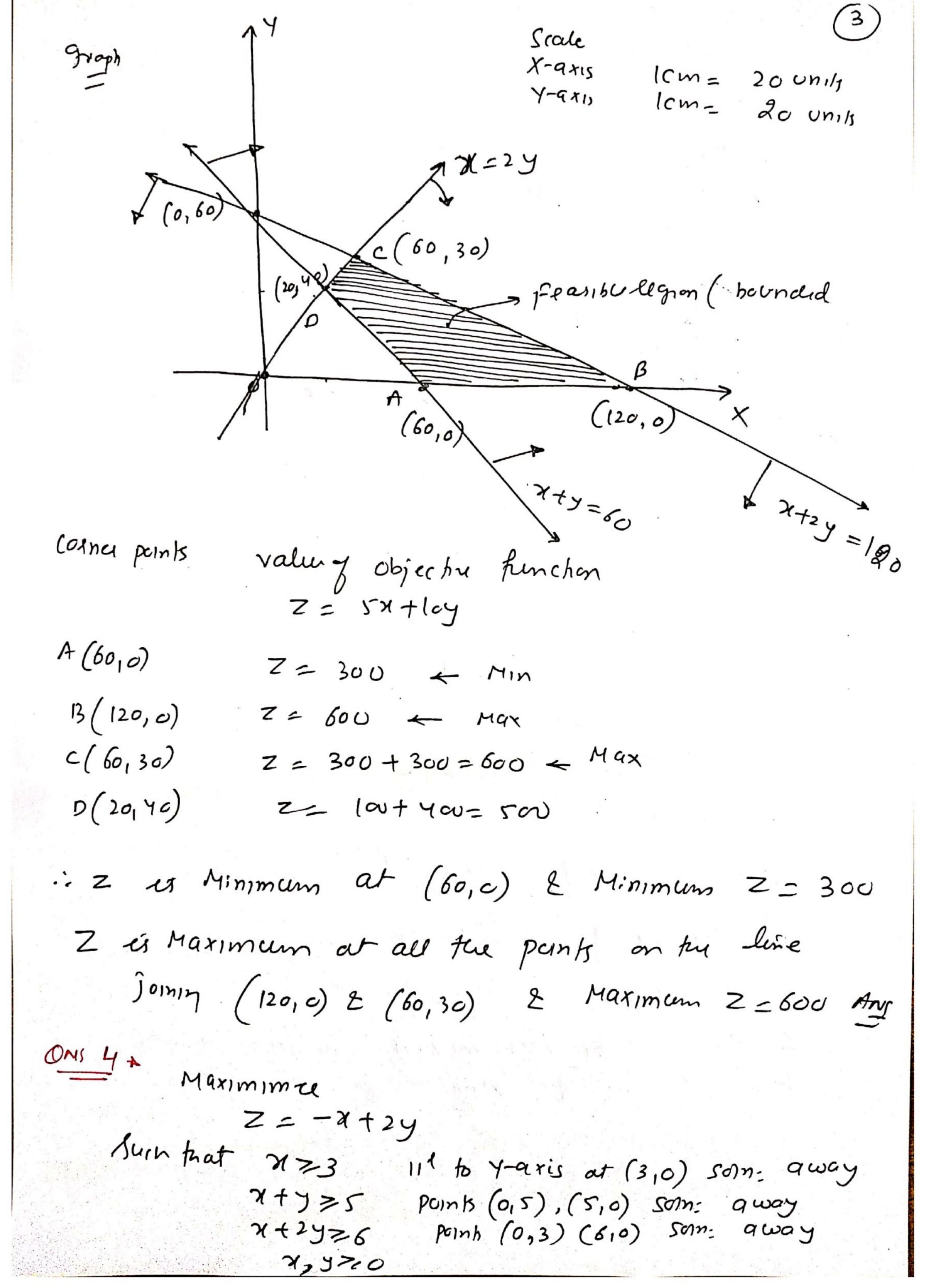
points (0,10), (10,0) 5dn away

N = Y

(0,0), (10,10) som. towards Y-axis

7,7 >0





Scale X-ans 1cm= LONA Y-axis 1cm= Tonit Fearible legion unbounded アイソート Corner points value of objective function Z = -x +2y A (6,0) Z = -6 + 0 = -6B (4,1) Z = -4 + 2 = -2z = -3 + 4 = 1.4C(3,2)-x+2y >1 Pons (0, 1); (-1,0) (away from auga) soruhan 0>1 Clearly fearible legion and open hay plane has Common legion " Z Cannot be Maximized Subject to the grun constraints Ans

Maximize Z=Xty

Such trat

points (0,1) (-1,0) soin: away 7/y = -1

-x+y =0 Point (0,0) (1,1) son: Towards X-axu GR) Y = X

N, 770

Scale x-axis (cm= 10n1+ Y-axu 10m= 10n,+

No fearible Region

counce points

Z Cannot be Maximized