PROBLEMA DUAL

PROBLEMA PRIMAL

F.O: Max

$Z = 2X + 3Y$

s.a

$2X + 3Y \leq 12$

$3X - 5Y \leq 30$

$X, Y \geq 0$

F.O: Max

$Z = 3X - Y$

s.a

$-X + 2Y \geq 5$

$X + 3Y \leq -2$

$X, Y \geq 0$

F.O: Max

$Z = 30X + 4Y$

s.a

$2X + 3Y = 6$

$4X + 5Y \geq 8$

$3X - Y \leq 10$

$\leq 0, \quad Y_3 \geq 0$

$X, Y \geq 0$

PROBLEMA DUAL

F.O: MIN

$W = 12Y_1 + 30Y_2$

s.a

$2Y_1 + 3Y_2 \geq 2$

$3Y_1 - 5Y_2 \geq 3$

$Y_1, Y_2 \geq 0$

F.O: MIN

$W = 5Y_1 - 2Y_2$

s.a

$-Y_1 + Y_2 \geq 3$

$2Y_1 + 3Y_2 \geq -1$

$Y_1 \leq 0, Y_2 \geq 0$

F.O: MIN

$W = 6Y_1 + 8Y_2 + 10Y_3$

s.a

$2Y_1 + 4Y_2 + 3Y_3 \geq 30$

$3Y_1 + 5Y_2 - Y_3 \geq 4$

Y_1 No restringida , Y_2

F.O Max

Z= 7X + 4Y

Lim:

$2X + Y \leq 10$

$2X + 3Y \leq 24$

$3X + Y \leq 12$

$X, Y \geq 0$

S.O

Z= 77/2

Y1= 4 -3(1 / 4)

V.O

Y1 = 13/4

X= 3/2

Y= 7

H1=0

H2=0

H3= 1 /2

F.O Min

W= 10Y1 +24Y2+12Y3

Lim

$2Y1 + 2Y2 + 3Y3 \geq 7$

$Y1 + 3Y2 + Y3 \geq 4$

$Y1, Y2, Y3 \geq 0$

$2Y1 + 2Y2 = 7$

$Y1 + 3Y2 = 4$

$2Y1 + 2Y2 = 7$

$-2Y1 - 6Y2 = -8$

$-4Y2 = -1$

Y2= 1 / 4

Y3= 0

W= 10(13/4) + 24(1 / 4)

W = 77 / 2