**Usando função linprog Matlab**

[X , Z] = linprog (f, A, b, Aeq, beq, lb, ub)

**max** 20000x1 + 15000x2 +16000x3  => **min -**2000x1 - 15000x2 - 16000x3

50x1 + 30x2 + 30x3 <= 2000

2x1 + 3x2 +2x3 <=70

x1 + x2 + x3 <= 30

x1, x2, x3 >= 0

f =[-20000, -15000,-16000]

A=[50,30,30;2,3,2;1,1,1]

b=[2000,70,30]

Aeq=[]

beq=[]

lb=[0,0,0]

ub=[]

max f = 4500 x1 + 4500x2

f=[-4500,-4500];

A=[5000,4000;400,500];

b=[6000,600];

Aeq=[];

beq=[];

lb=[0,0];

ub=[1,1];

[X,Z]=linprog(f,A,b,Aeq,beq,lb,ub)

Z=Z\*-1