```
Michael Geist
          3x + 2y = 5000 = material

USx + 40y = (40.85.60) = 212 400 = 1.600
a) LPI LPZ LP3 = Large plants 1,2,3
mpl mp2 Mp3 = Medium plands
         Max 2 = 420 (Lp1 + Lp2+Lp3) + 360 (mp1+Mp2+mp3) + 300 (Sp1+Sp2
          20(Lp1) + 15(Mp1) + 12(Sp1) = 13000
20 (Lp2) + 15 (Mp2) + 12(Sp1) = 12000
20 (Lp3) + 15 (Mp3) + 12(Sp1) = 5000
                                                                               Storage
           Lpl + Lp2 + Lp3 = 900 7
mpl + mp2 + mp3 = 1200 ? sales
Sp1 + Sp2 + Sp3 7500 ?
```

a) x = collegiat
y = mini

c) constrants

Man Profit morZ=32x+24y

non-regulivity x, y 20

3x+2y < 5000 45x+40y < 212400

Spl Sp2 Sp3 = Smull plants

LDZ+MPZ+SPZ = 900 Capacify

all varibus are non-regalize 20

D) max 7 = 32x+ 244

b) objective function

Constairie

Lp1+ Mp1 + Sp1 = 750

Lp3+Mp3+ Sp3 = 450