I am aware that any forms of cheating in this exam will result in a terro grade and a disuplines invitigation. I occupt all rules and regulations rejudions are exampled in clarification for the processing of my personal date as stated in clarification Text provided on the Faults of Engencesing website.

Fatil Eream
Pinter
150119567

Depart.

Question: Wild west produces two types of cowlog hots. A type I hat requires twee times as much labor time as a type 2. If the all avaliable labor time is dedicated to Type 2 alone, the company can produce a total of uso Type 2 hots a day. The market limits for the two types are loss and 300 hots per day for Type 1 and Type 2. The profit is 13 per Type 1 and 15 per Type 2. Determine the # of hots of each type that would maximize profit.

Decritor vioriosles: x1: type & produced in a dos.

X2: 1 type & produced in a dos.

## contrainty;

? = Bx1 + 5x2 - Movimanta function.

- @ In terms of lobour force:

  Desor force for producing.
- xx < sos } mortet unts
- X() 0 } Non-negotivity controints.
   X√10 }

1# 3x1 + x2 & 450 (Laser face) -> (x1=150) x2=450)

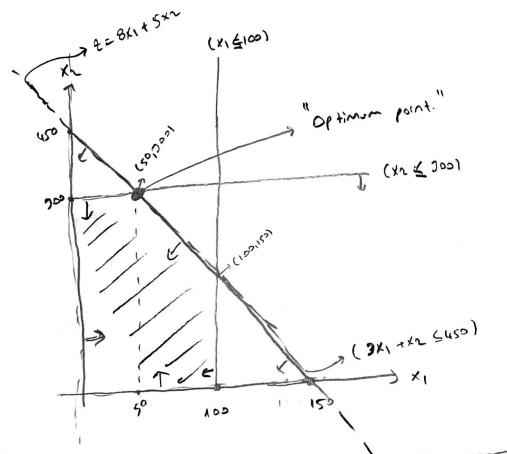
2\* x1 & 100 (Maket stall for Tyre & Hot) (11=100)

3\* x2 & 300 (Maket stall for Tyre & Hot) (x1=200)

4\* x170 (Non-regarders for the products)

5\* x270

2) Solve the problem graphicalls.



of the often lant.

X1 = 50 X2 = 300 7 = 1300

The maximization

function is:

the producer should produce to the producer should produce the company's profit.