I am awar that any tams of cheating in this exam will result in a zero grade and a discipling investigation I accept all rules and regulations regarding online exams. I give permission to the processing of my personal data as stated in clarification but provided on the Faculty of Engineering website.

QU

wild wost produces two types of combos reds.

type req 3 times were type? If all lobor

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dodicated to typ? The company produce total 450 typ? has

Maked limits are 100 and 300 hals per day for Type I and Type I respectively. The profit is \$8 for hat Type and 5# per type 2 hat. Maximize the profit. I. Mathematical Model II. Solve problem

Od) Solvion 1 type = takes 3L to preduce

> total Source = 450L

type 2 = 1 ches L to produce

I) Moth Model

X & of typt produced

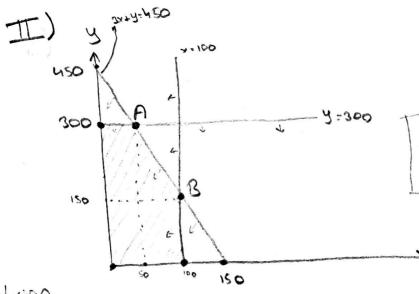
3x +4 \$450

4 " " type 2 "

× (100

4 < 300

Objective } (2 = 8x + 5y) Max



catulations y-200 3x+300=950

capationles

of dots

x=50

A= (50,300) V 2A= 8.50+5.300 = 19004

B= (100, 150)

2B = 8 100 + 5. 150 = 1550 #

In order for the firm to make the most prodit, it has to produce so type! hads and 300 type? hads. Disalit would be 1900\$