I am aware that any forms of cheating in this exam will result in a zero grade and a disciplinary investigation. I accept all rules and regulations regarding online exams. I give permission for the processing of my personal data as stated in the Charification Text provided on the Faculty of Engineering website.

Eren BASPINAR

(a) wild wort produces 2 types of combos habs. 150112031 Attpe / hat requirer three timer as much labor time as a type 2. If the all available labor time in dedicated to Type 2 alone, the company can produce a total of 600 Tyre 2 hats aday. The maked limits 100 prd 300. Prafit & and 5 dolor. Profit Maximize profit

Labor Time 3 δ Х, Type 1 -> X, Type 2 -> X2 5 XZ 450

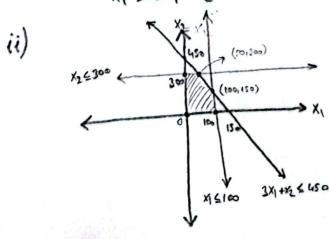
x1 € 100 X2 4 J00

101

1)
$$2 = 8X_1 + 5X_2$$
 (max) \rightarrow objective func.

Constraints funct.

3x1 + x2 4450 X1 & 100 X2 4 300 x, >0 , x2 >0



| Caner Points | t = | 8x1 + 2x5 | |
|---------------|------------|-----------|-------|
| (0,0) | | 0 | |
| (0,2\infty) - | | 1200 | |
| (100,0) - | -> | 203 | |
| (150, 150) - | -> | 1550 | |
| (50,100) | > | 1900 | * |
| Type 1 -> | 20 | ? max p | rofit |