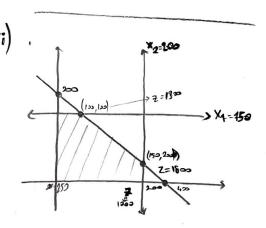
"I am aware that any forms of cheating in this exam will result in a zero grade and a disciplinary investigation. I accept all rules and regulations regarding online exams. I give permission for the processing of my personal data or stated in the Clarification Text provided on the Faculty of Engineering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

## Ousefion

Wild west produces two types of cowboy hat. A type 1 hat requires three times or much labor time os a type 2. It the all avaible labor time is dedicated, to Type 2 alone, the company can produce a total of 450 Type 2 hats a day. The market limits for the two types are 100 and 300 hats per day for Type 1 and Type 2, respectively. The profit is \$8 per type 1 and 45 per Type 2 hat. Determine the number of hats of each type that would now profit.

i) Build the notherotical nodel of problem.

ii) Solve the problem gophially.



Opt. Point of ->  $x_1 = 100$  $x_2 = 200$ 

opt. where is = 1800

Cebrail AMPIT