I am aware that any forms of cheating in this exam will result in 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 clarification Text provided on the faculty of Engineering rulesik

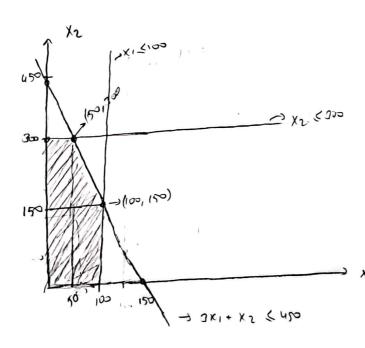
150120046 - 8eyza Aballahugh But

(91)

Type 2 -> x1 - (300/perday 3x1 = x2

Type 2 -> x2 - (300/perday 3x1 + x2 < 450

2= 8. X1 + 5. X2 -> MOXIMIZE



X	Xz	2: 8x1+5x2
100	150	1550\$
90	300	1900\$

X1, X2 E 2+ X1 < 100, X2 < 300

- WIH west producer has types of compay lasts. A type 1 regules three times as much labor time as type 2.11 the all quallable labor time is dedicated to Type 2 alone, the company can produce a total of us type 2 hats a day. The market limits for the two types are 100 and 800 halts por day for Type 1 and Type 2 aspectively. The papit \$8 per Type 1 Lat and \$5 per Type 2 hat betermine the number of hats of each type that would maximize profit.

- i. Build the mathematical model of the problem.
- ii. Solve the problem graphically.