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 Clarification Text provided on the Faculty of Engineering website.

tour

1. Wild West roduces two types of comboy hats. A type I hat requires three times as much lubor time as type 2. If the all available lubor 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 hats per day for Type 1 and Type 2, respectively. The profit is \$ 8 per Type 7 hat and \$5 per Type 2 hat, Determine the number of hats of each type that would maxinize trofit. is build the mathematical model of the problem ii. Solve the problem graphically.

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Enis

×1 = number of type 1 hats

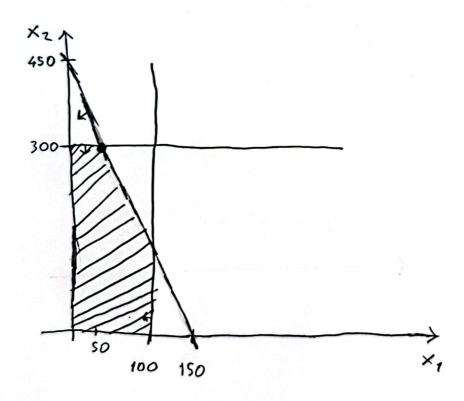
X2 = number of type 2 hats

max1mize = 8x1 + 5x2

3×1 + ×2 € 450

×1 ≤ 100

× 2 ≤ 300



X1=50 X2=300

8.50 + 5.300 = 400 + 1500 = 1900