"I am avare 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."

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## IE3035 QUIZ 1

QL) Wild West produces two types of comboy hats. A type 1 hat requires three times as much labor time as a type 2. If the all available 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 par day for Type 1 and Type 2, respectively. The profit is \$8 per Type 1 hat and \$5 per Type 2 hat, i. Build the mathematical model of the problem.

ii. Solve the problem graphically,

