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



- 1) Wild west produces two types of cowboy 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 per day for type 1 and type 2, respectively. The profit is \$8 per type 1 hat and \$5 per type 2 hat. Determine the number of hats of each tyre that would maximize profit
  - 1) · Build the mathematical model of the problem.
  - 11) Solve the problem graphically.

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objective function

P= 8xa+SX2

market constraint:

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and type 2 should be created

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