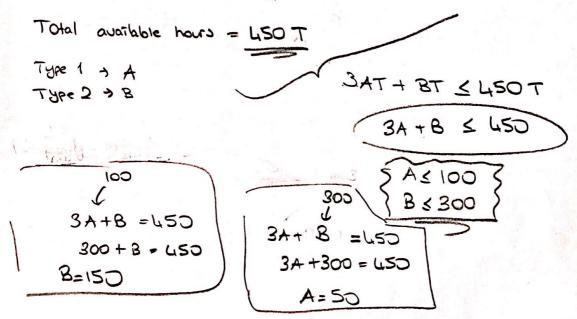
I am aware that only forms of cheating in this exam will result in a zero grade and a disciplinary investigation. I accept all rules and regulations regarding online example. I give permissions for the processing of my personal data as stated in the Clarification Text provided on the Faculty of Engineering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

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- wild west produces two types of combay nots. 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 USD type 2 nots a day. The warket 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 type that would maximize profit.
 - (7) Build the nathenatical model of the problem.
 - (ii) Jolue the problem graphically.

Type 2 need a T hours. Then Type 1 need 3T hours.



Following vertices

Max profit of \$1550 occurs when the company produces 100 Type" hats and 150 Type) hats per day.

