San accert popony fours of cheaty in this exam will regall in a zero grade and this exam will regall in a zero grade and rules a disciplinary involtyculter. I accept all rules and regularious regarding entire exams. I give permission for the processing of my personal Jeda as stated in clarification text provided on the Faculty of Engineering authorite.

Spela

OI) Wild West produces two types of cowboy hats. A type I hat requires three times as much labor time as a type 2. If the all available labor time is dedicated to type? alone, the company can produce a total of 450 Fyec? huts a day. The marketing limits for the two types are 100 and 300 huts per day for type I and Type?, respectively. The profit is 8\$ per type I hat and 5\$ per type I hat of each type I hat would maximize profit.

i. Build the mathemortical model of the problem.
ii. Solve the problem graphically.

450 y= 100 x + 300 y Maximite = X+y 50 y= 100 x

100x 505=100x 5=2x 600tt+ bec x = 8

450.5=100.8+300.5 450y=225x

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