I om aware that any firms of cheating in this exam will Golding result in a zero grade and disciplinary investigation. I accept Golera all rules and regulations regarding anline examp I give pumission for the processing of my reisonal data as stated in the Closification Text provided on the Foculty of Engineering trebsife.



Q1-) wild west produces two types of comboy hots A type 1 hd requires three times as much labor time as a type 2. If the all evoilable bor time is dedicated to Type 2 alone, the company con produce a total of 450 Type? hots adoy. The modest limits for the two types are 100 and 300 hots res day for Type 1 and Typel , respectively. The profit is \$8 por Type 1 hot and \$5 per Type 2 hot. Determine the number of hots of each type trot would meximize profit.

1. Build the nothernotical model of the problem. il. solve the problem graphically.

morninize profit. Type 1 hot for = x1 2= 8×1 +5x2= Type 2 hot for = x2 2= 8.100 + 5.300 = 4, 5450 X2 5450 M 2= 2300 100 SX, \$300 450,0