I am aware that any forms of cheating in this exam will result in a zero prade and a disciplinary investigation. I accept all rules and regulations regarding article exams. I give parmission for the processing of my passonal data as stated in the Clarification Text provided on the faculty of Engineering website

Abu Yajimur Kahyaajin

4

Wild West produces two types of comboy hots. A type I had required three hours as much labor three eastly per 2. If the all analosele labor time is dedicated to type I done, the company can produce a total of 450 type 2 hots a day. The nortest climits for two types are 100 and 300 hols per day for type I and Type 2, respectively. The profit 1, 18 per type I hat and \$15 per type 2 hots Determine the number hols of each type that would maximize profit.

i. Build the nothernotical model of problem.
ii. Solve the problem prosphicolly.

= type 1 -> 100 hets - Type 2 -> 30 hols -> per day.

X = 3x, t, tx.t2

(100t1 + 300t2). (t187 t2.7)

types ht