I am aware that any forms of cheating in this examinate result in a zero grade and a disciplinary investigation.

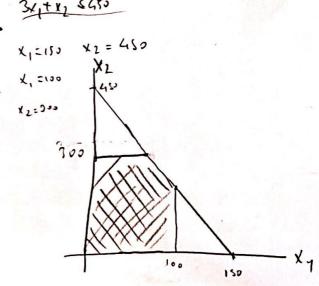
I occept all rules and regulation regarding on line exam. I give permission of my personal data as stated in the Clarification text provided on the Faculty of Engineering website

Furkan Erdajon IE 3035 Quiz 1 April, 23, 2027

1) Will West produces two types of comby hots. A type 1 hat requires three times as nuch labor time as a type 2. If the all avoible labor time is dedicated to Type 2 alone, the company can produce a total of 450 Type 2 hats a day. The morted limits for the too topps are 100 and 300 hats per day for Type 1 and Tope 2 respectively. The postit is \$8 per Type 1 hat and \$15 per type 2 hat. Determine the number of bots of each type that would navivate postit.

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

i.  $\frac{3x_1+x_2 \le 6x_1 + 5x_2}{3x_1+x_2 \le 450}$   $x_1 \le 100$   $x_1 \le 300$   $x_1 \le 300$   $x_1 \ge 0$ 



mox = 8(50) + 5(200) = 1900