Ali Yetim 150119803

I am aware that any forms of cheating in this exam will result in a zero grade and a disciplinary investigation. I accept all rules and regulations regarding online exams. I give permission for the processing of my personal date as stated in the Clarification Test provided on the Faculty of Engineering Wabsite.

1-) Wild West produces two types of cowboy hats. A type I hat regulars three times as much labor time as type 2. If the all available labor is dedicated to type 2 alone, The company con produce a total of 450 Type 2 hats a day. The market limit for two types are 100 and 300 hats per day for Type I and Type 2, respectively. The profit is \$8 per Type 1 and \$5 per Type 2. Determine the the number of hets of each type that would maximize profit.

1. Build the mathematical model of the problem.

11. Solve the problem grophically

1-) Z = 8xy + 5x2 moximize 3×1+×2 ≤450

×1= 100

x2= 150

