BERKEN ARAS 450419069 JFJ035 QUIA-1 I am owere that any form of cheating in this exam will result in a gara grack and a disciplinary investigation. I occupt all the rules and regulations regarding online exam. I give permission for the processing of my date as statuel in the Chrisication Text provided on the faculty of Engineering website. Berken Aros 100110069 BA Question Wild west produces two types of could hot. A type 4 hot requires three times as much labor time as a type 2. If the all available labor time is dedicated to type 2 olone, the company can produce a tolot of 450 type 2 hots a day. The market limits par the two types are 100 and 200 hots per day for type of and type 2, respectively. The profit is \$ 1 per type of het one It por type 2 hot. Determine the number of hot, of each type that would moximize proprit. i. Build the nothernotical model of the problem ii. Solve the problem grophically. Solution 1 function mox Z= /x + Sy 3x+y <450 Type I - ) X number of hots y=450-3x COI>X =) X=100 Type 2 - 1 y number of hots. y € 300 y=300 x30 y50 (8x+5y) 450 Coordinates propit >(50,200) 0 (0,0) (100,01) 800 350-) y=200 (100,150) 1550 Xex (50 [100 [100]) 7/(100,160) (0,300) Jesos 100. Answer Type 1 = 150 (100,0) Type 2=1300 در ویاد دو می اس می در