IE 3035 QUIZ Emine aip 15018012

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1) Widd west produces two types of coulony hots. Atype 1 hot request three times as such about time as type 2. If all avoidable about time 15 deduce bed to Type 2 obre, company can produce a tool 450 type 2 hots aday. Market simas but two type are 100 and 300 hots par day but for that and T2. Profit \$8 but T1, \$5 but T2 has Determine the number of hots of each type but that would no know be profit.

11 - Solve the problem graphically. At) Graphical Soln. Type I Type 2 Lobon Time Honker 11 100 300 Town 450 5 Rofas 300 ×2 < 100 1) Norman Hodel > Feosible Sin 200 · Decision Variables X1 >> % hours of Type I X2 = x hors of Type 2 · Objective function 50 200 100 (moximise) 8x1 +5 K2 (-50 ,80) · Constraints (501-80) 3x1+x2 =460 X1, X + 2+ For maximum make the mond to corner X S los X2 = 300 Q= '8x1+ 5x2 (3x1+x2) t = 450+, t: time to 1 10+ 15015 \* Option 17 KI= 50, K2-1200, Q= 1800 Optional 3x1+x2 = 450 Syrso x250 35 1020 Jeosophe (0,450) = (501300) 2 = 8-50 + 5.300 or corner (150,0)