Kenser C

"I am aware that any from of cheating in this exam will result in a zero grade and a disciplinary lines tigology. I accept all results and regulations regarding on line exams.

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Destation i wild west produces two types of comboy hats A type I requires three times as much labor time as a type 2. If the all available labor time is decicated to type 2 alone, the company can produce a total of 450 type 2 hats aday. The market limits for the two types are 100 and 300 hats per day for type I and type 2, respectively. The profit is \$8 per type I hat and \$5 per type I hat and I be termine the number of hats of Each type that would maximize profit is Build the mathematical model of the public the problem \$6 per the type I had a problem \$6 per type I had a per typ

1.) Type 1 => x number of hats

Type 2 => y nuber of hats

Objective questation

max 2 = 8x + 5y

3x+3 = 450 x = 200 y = 300

05B , 05x

Type 1 => 3 2 hours Type 2 => a hours max avaiblable = 450 abours 3 dx + 2y & 450 d 2= 8x+5y Coordinads Two maximize profit-produce (0,0) Type 1 = 50 (100,0) 800 Type 2 => 300 (0,300) 1500 (50,300) 2500 max (200, 150) 1550 x=100 (1) (50,200) y = 300 200 (00,150) 50 300 350 600 650 (0,0) 150 200 250