JE 3035 Operations Research QUIZ 1

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D Wild West produces two types of cowboy hots.

A type 1 hat requires 3-times as much labor time as type 2.

Company can produce a total of 450 Type 2 hats a day.

The market limits for 2 types are 100 and 300 per day.

The profit is \$8 per Type 1 hat

\$5 per Type 2 hat

X1 = Type 1 hat

 $7 = 8x_1 + 5x_2$

XI

<400

Constraints; $3 \times 1 + \times_2 > 0 \rightarrow \times_1 = 0$ $0 + \times_2 = 0$ $\times_2 = 0$ $\times_2 = 0$ $\times_1 = 0$ $\times_1 = 0$ $\times_1 = 0$ $\times_1 = 0$ $\times_2 = 0$ $\times_1 = 0$ $\times_2 = 0$

XI & 100 > x = 100

 $x_{1}=0$ $x_{2}=300$ $x_{1}=0$ $x_{2}=400$ $x_{2}=0$ $x_{1}=400$ $x_{1}=0$ $x_{2}=00$ $x_{2}=0$ $x_{1}=400$ $x_{1}=0$ $x_{2}=0$ $x_{1}=400$ $x_{2}=0$ $x_{1}=0$ $x_{2}=0$ $x_{1}=0$ $x_{2}=0$ $x_{1}=0$ $x_{2}=0$ $x_{1}=0$ $x_{2}=0$ $x_{1}=0$ $x_{2}=0$ $x_{2}=0$ $x_{3}=0$ $x_{4}=0$ $x_{5}=0$ $x_$

 $x_2 = 7ype2 hat$

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