Assignment 2 - Gordon Wall Gwall 2)

1. Back Savers

Let
$$X_j = quantity of type(j)product to make per week.

j=1 -> collegiate j=2 -> mini$$

Subject To:
$$3x + 2x^2 \leq 5,000$$

$$x_1 \leq 1,000$$

$$x_2 \leq 1,200$$

$$45x_1 + 40x_2 \leq 84,000$$

35 laborers × 40 hours lack 1,400 hrs/lack Sonvert to minutes 84,000 min/lack

2. Weigelt Corp.

Let Xjp = quantity of (j) product to make by each (p) plant per day.

j=L -> large size j=M -> medium size j=3 -> small size

CORPORTED TO

$$p = 1 \rightarrow plant 1 \quad p = 2 \rightarrow plant 2$$
 $p = 3 \rightarrow plant 3$

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Max Profit (P) =
$$420 \times L_1 + 360 \times M_1 + 300 \times S_1 + 420 \times L_2 + 360 \times M_2 + 300 \times S_2 + 420 \times L_3 + 360 \times M_3 + 300 \times S_3$$

Subject To:

Lover

(X_{L2} + X_{M2} + X₅₂) - (X_{L3} + X_{M3} + X₅₃) 960 450 5.T. All Xjp and see is M- a nas 8 - 3 - 2 dant 3 = (1) +HOP XAM : OT DAYOUC