Exercise 5.1

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5.1 a 
$$max \ W = 35 \pi_{1} + 2\pi_{2}$$
  
S.t  $5\pi_{1} - \pi_{2} \leq 3$   
 $7\pi_{1} + 2\pi_{2} \leq -6$   
 $T_{1}, T_{2} \leq 0$   
b  $max \ W = T_{1} + 6 T_{2}$   
S.t.  $T_{1} + 3T_{2} \leq 2$   
 $T_{1} + 2T_{3} \leq 1$   
 $T_{1} \geq 0, T_{2} \leq 0$   
c  $max \ W = 6T_{1} + 4T_{2} - 20$   
S.t  $-3\pi_{1} - 8\pi_{2} \leq -3$   
 $3T_{1} + 4T_{3} \leq 1$   
 $T_{1}, T_{2} \leq 0$   
d  $min \ 100T_{1} + 100T_{2} + 100T_{3}$   
S.t  $2T_{1} + 6T_{2} + 10T_{3} \geq 240$   
 $2\pi_{1}, T_{2}, T_{3} \geq 0$ 

max w= 8 T, - 2 T,  $2T_1 \leq -3$  $3\pi_1 + \pi_2 = -4$ TT, <0, TI2 >0 min 13th, +20 Tz s.t. 2T, -5T/2 4-5 9T, +3T, > 7 T, ER, 71, >0