## CS 451 Activity 12 - Solution

 $\max z = 5000x_{1+}3000x_{2}$ 

s.t.  $x_1 + x_2 \le 7$   $10x_1 + 4x_2 \le 40$  $10x_2 \ge 30$ 

 $x_1 \ge 0$ ,  $x_2 \ge 0$ 

(# of cables Constraint)
(labor Constraint)

(company regulation Constraint)