

ITEC451
Activity 7 - Solutions

1. $\max z = 3x_1 + 2x_2$
s.t. $2x_1 + x_2 + s_1 = 100$
 $x_1 + x_2 + s_2 = 80$
 $x_1 + s_3 = 40$
 $x_1, x_2, s_1, s_2 \geq 0$
2. $\min z = 50x_1 + 100x_2$
s.t. $7x_1 + 2x_2 - e_1 = 28$
 $2x_1 + 12x_2 - e_2 = 243$
 $x_1, x_2, e_1, e_2 \geq 0$
3. $\min z = 3x_1 + x_2$
s.t. $x_1 - e_1 = 3$
 $x_1 + x_2 + s_1 = 4$
 $2x_1 - x_2 = 3$
 $x_1, x_2, e_1, s_1 \geq 0$