

Name: _____

Date: _____

MA 162

Week 12 Recitation Worksheet (Thursday)

You must show all work to receive full credit.

1. Solve the following LP problem using the simplex method.

$$\begin{array}{ll} \text{Minimize} & C = 1800x + 2000y + 3200z \\ \text{subject to} & 4x + 2y + 4z \geq 6 \\ & x + 2y + 2z \geq 8 \\ & x + y + z \geq 5 \\ & x \geq 0, y \geq 0, z \geq 0 \end{array}$$

2. Solve the following LP problem using the simplex method.

$$\begin{array}{ll} \text{Minimize} & C = 40x + 48y + 30z \\ \text{subject to} & 2x + 2y + z \geq 25 \\ & x + 3y + 2z \geq 30 \\ & x \geq 0, y \geq 0, z \geq 0 \end{array}$$

