

**Dr. Z.'s Math 354 REAL Quiz #6**

**NAME:** (print!) \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

**1.** (8 pts.) Solve the following linear programming problem, using the M-method. (No credit for using the graphical, or any other method). Explain everything.

Maximize  $x$ , subject to the restrictions

$$x + y = 5 \quad , \quad x - y = 1 \quad , \quad x \geq 0 \quad , \quad y \geq 0 \quad .$$