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

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