

Discrete Optimization

Moshe Rosenfeld

Hanoi 2011

moishe@u.washington.edu

1 LP preparation

Lecture-10 preparation.

Solve (by hand, no computers needed) the following problem:

$$\text{Maximize: } 3x + 2y \tag{1}$$

$$\text{Subject to: } 2x + 5y \leq 5 \tag{2}$$

$$x + 5y \leq 3 \tag{3}$$

$$4x + y \leq 5 \tag{4}$$

$$x, y \geq 0 \tag{5}$$

Does your solution change if the constraint: $3x + 5y \leq 5$ is added?