

Worksheet 1/27/2025

Use the simplex method to solve the following linear programming problems:

- 1) maximize $P = x + 4y$
subject to
 $x - y \geq -4,$
 $3x - y \geq -3,$
 $x - 2y \leq 2,$
 $x, y \geq 0.$

2) minimize $C = 2x + 3y - z$
subject to
 $3y + z \leq 1,$
 $2x + y - z \geq 5,$
 $x, y, z \geq 0.$