

50. x hrs programming
 y hrs tutoring

hrs $x + y \leq 40$ $y \leq -x + 40$

\$ $20x + 10y \geq 500$ $y \geq -2x + 50$

$$x \geq 0$$

$$y \geq 0$$

52 x # electric

y # gas

$$x + y \geq 45$$

$$50x + 40y \geq 2000$$

$$x \geq 0$$

$$y \geq 0$$

I

3.5 Linear Programming

10. Constraints Inequalities

p191

$$x + 2y \leq 8$$

$$x + 2y \leq 8$$

$$2y \leq -x + 8$$

$$y \leq -\frac{1}{2}x + 4$$

$$2x + y \geq 10$$

$$x \geq 0$$

$$y \geq 0$$

$$2x + y \geq 10$$

$$y \geq -2x + 10$$

14. (4, 2) (5, 0) (8, 0)
Corner Points $\phi = x + y$

- 22-28 1. Graph constraint
2. Find vertices
corner points

3. Substitute corner points
into Objective function

$$P = (x, y)$$

Max

Min

10-28 E

