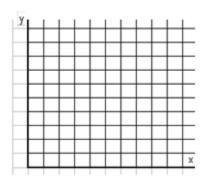
- \*Objective:
- \*linear programming:

* <u>feasible region</u> :	Example	*Diagram (first on p. 157)
	C = 2x + y	
* <u>objective function</u> :	$\begin{cases} x \ge 2 \\ y \ge 3 \\ y \le 6 \\ x + y \le 10 \end{cases}$	
*constraints:		

## \*Vertex Principle of Linear Programming

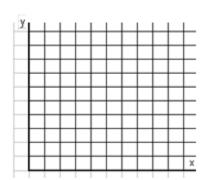
Got lt? 1. a. Use the constraints in Problem 1 with the objective function P = x + 3y. What values of x and y maximize P?

Constraints  $\begin{cases} x + 2y \le 5 \\ x - y \le 2 \\ x \ge 0 \\ y \ge 0 \end{cases}$ 



**15. Error Analysis** Your friend is trying to find the maximum value of P = -x + 3y subject to the following constraints.

$$\begin{cases} y \le -2x + 6 \\ y \le x + 3 \\ x \ge 0, y \ge 0 \end{cases}$$



Inclass: p. 160 #10

Homework: p. 160-161 #11, 17, 19

Interactmath: #10, 17