

Worksheet – Systems of Inequalities
Linear Programming

Name _____

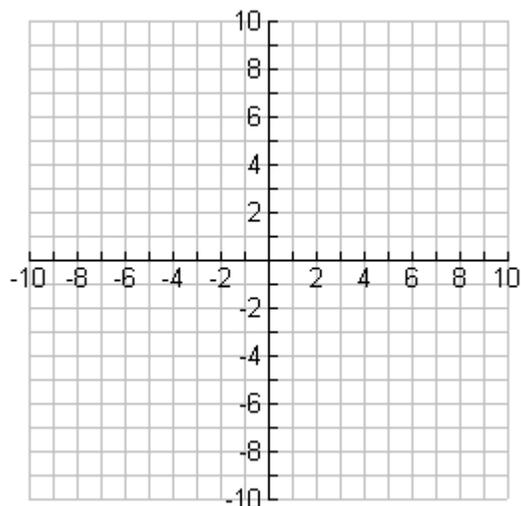
For each of the following problems, find the feasible region and the coordinates of the vertices of the polygon representing the feasible region.

1.

$$x \geq 1$$

$$y \geq x + 1$$

$$y \leq 8$$



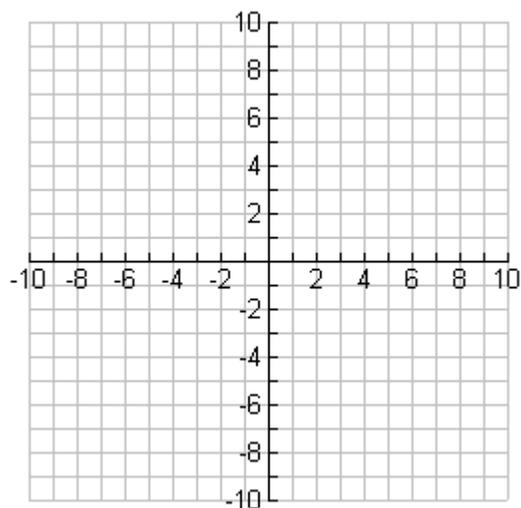
2.

$$x \geq 3$$

$$x \leq 7$$

$$y \leq 10$$

$$y \geq -x + 8$$

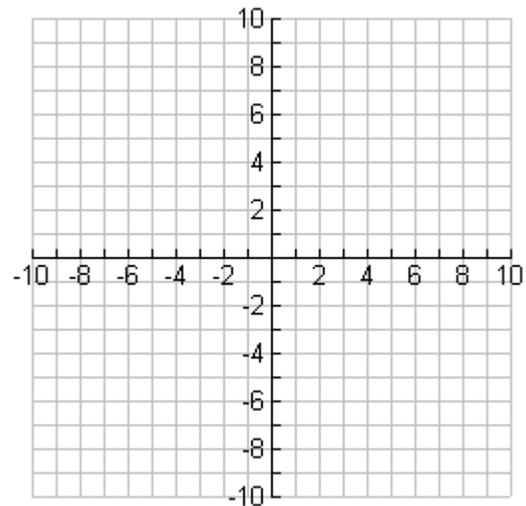


3.

$$y \leq x + 6$$

$$x + y \geq 6$$

$$x \leq 4$$



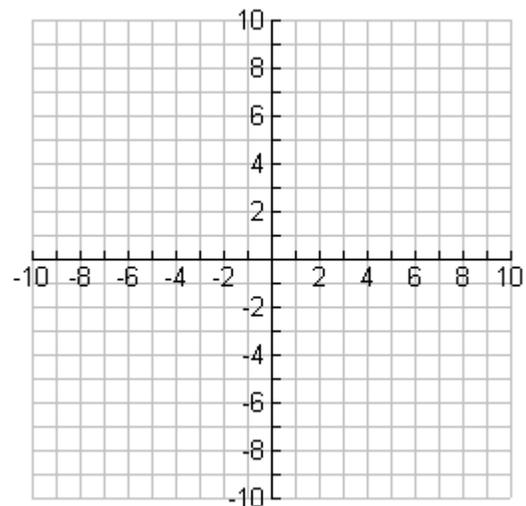
4.

$$x \geq 0$$

$$y \geq 0$$

$$x + y \leq 4$$

$$2x + y \leq 6$$



5.

$$y \geq 0$$

$$y \geq -3x + 6$$

$$y \leq 3x$$

$$x \leq 7$$

$$y \leq 6$$

