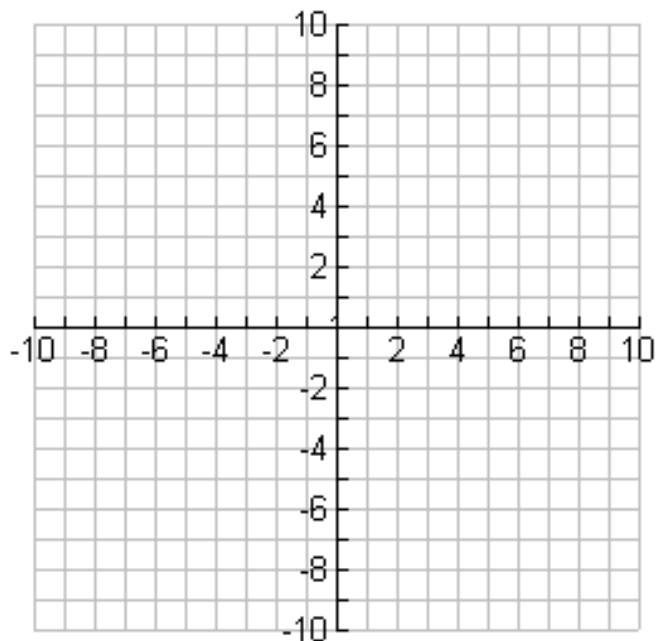


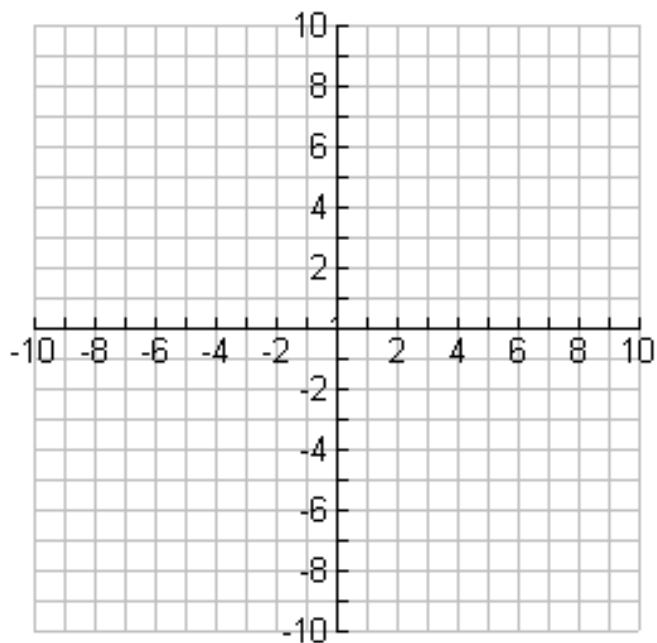
Linear Programming Algebraic Worksheet
CP Algebra 2

Find the maximum and minimum values of each objective function for the given constraints.

1.)
 $y \leq 4$
 $y \geq 2x - 2$
 $x \geq -3$
 $f(x, y) = 10x + 3y$



2.)
 $y \leq -\frac{2}{3}x + 7$
 $y \geq -4$
 $x \geq -3$
 $y \geq 3x - 4$
 $f(x, y) = -3x + y$



3.)

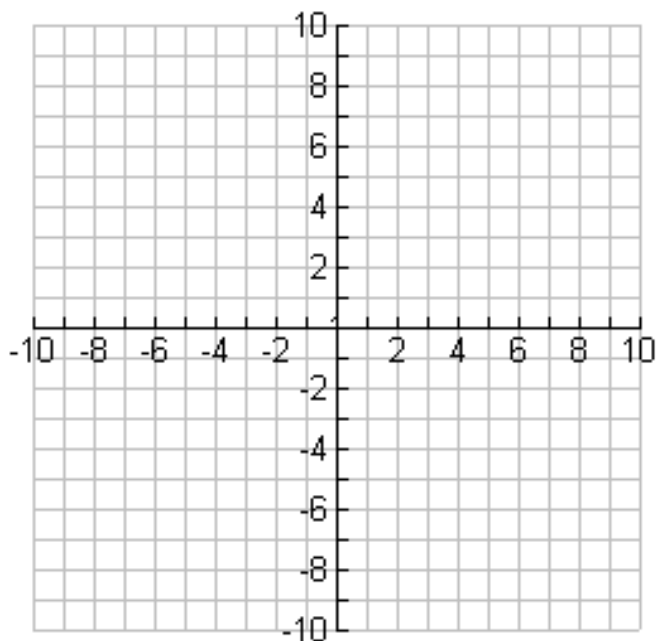
$$x + y \leq 7$$

$$x - y \leq 5$$

$$x \geq 0$$

$$y \geq 0$$

$$f(x, y) = 5x + 2y$$



4.)

$$5x + 2y \leq 20$$

$$x - y \leq 4$$

$$x \geq 0$$

$$y \geq 0$$

$$f(x, y) = 10x + y$$

