

Graphing Inequalities

In this internal we are not only graphing lines that are equal, but we are wanting to graph areas that are more or less than a line to find a 'feasible region'. This is an area where all of the inequalities hold true. The first one has been done for you.

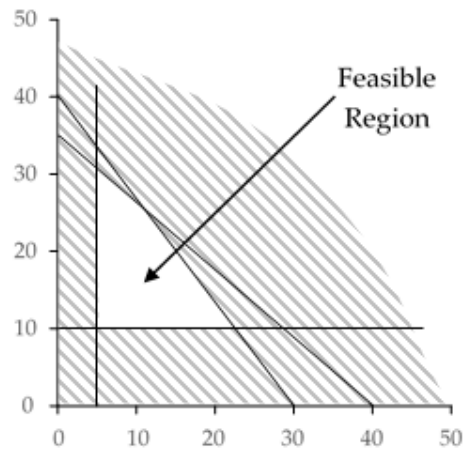
Question 1

$$4x + 3y \leq 120$$

$$7x + 8y \leq 280$$

$$x \geq 5$$

$$y \geq 10$$



Question 2

$$12x + 5y \leq 300$$

$$8x + 13y \leq 520$$

$$x \geq 5$$

$$y \geq 16$$

Question 3

$$14x + 9y \leq 630$$

$$8x + 15y \leq 600$$

$$x \geq 5$$

$$y \geq 10$$

Question 4

$$11x + 9y \leq 495$$

$$2x + 3y \leq 120$$

$$x \geq 11$$

$$y \geq 17$$

Question 5

$$18x + 5y \leq 450$$

$$4x + 9y \leq 360$$

$$x \geq 8$$

$$y \geq 16$$

Question 6

$$5x + 2y \leq 150$$

$$5x + 9y \leq 450$$

$$x \geq 12$$

$$y \geq 11$$

Question 7

$$13x + 10y \leq 650$$

$$9x + 19y \leq 855$$

$$x \geq 19$$

$$y \geq 20$$

Question 8

$$3x + 2y \leq 150$$

$$5x + 19y \leq 475$$

$$x \geq 13$$

$$y \geq 7$$