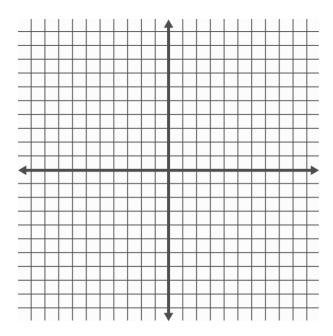
Unit 13.3 Systems of Linear Inequalities

1. Solve each of the systems of linear inequalities graphically

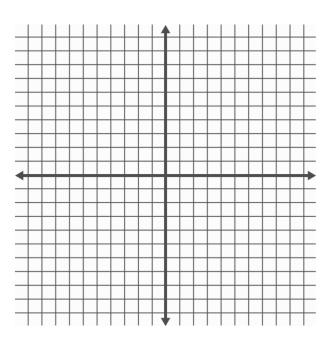
a.
$$y > 2$$

 $x \ge 3$



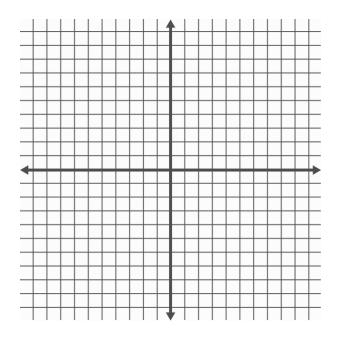
b.
$$x - 3y \le 3$$

 $x < 5$



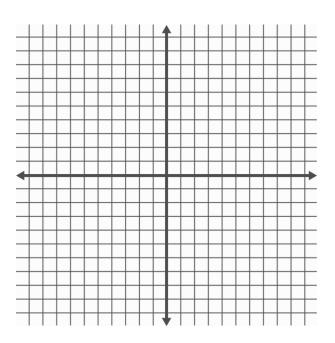
c.
$$3x + 4y \ge -7$$

 $y \ge 2x + 1$



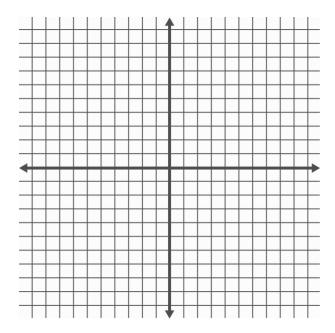
d.
$$x + 3y \le 9$$

 $x - y \ge 5$



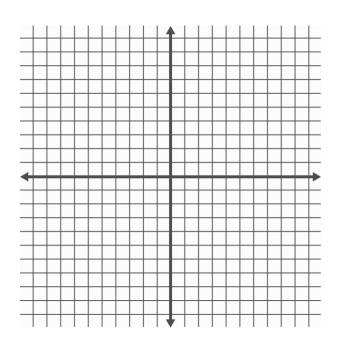
e.
$$y \le x + 3$$

 $x - y \le -5$



f.
$$y \le -2x$$

 $y < -2x - 6$



2.	Greg will donate up to \$500 to charity. The money will be divided between two charities: the
	Animal Shelter and the Food Bank. Greg would like the amount donated to the Animal
	Shelter to be at least three times the amount donated to the Food Bank. Let x denote the
	amount of money (in dollars) donated to the Animal shelter. Let y denote the amount of
	money (in dollars) donated to the Food Bank. Write the equations and then shade the region
	corresponding to all values of x and y that satisfy these requirements (let each notch on the
	graph represent 100 , $1 = 100$)

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