1.   Solve the system of inequalities graphically:

$$x < -3$$
$$y \le 2$$

2.   Solve the system of inequalities graphically:

$$y \le \frac{1}{2}x$$
$$y \ge x - 3$$

3.   Solve the system of inequalities graphically:

$$x + y \ge 3$$
$$x - y \le 1$$

4.   Solve the system of inequalities graphically:

$$3x + y \le 4$$
$$x + y + 2 \ge 0$$

5.   On the same set of coordinate axes, graph the following system of inequalities:
$$3y \ge 2x - 6$$
$$x + y > 7$$

       Based on the graph drawn in part a, write the coordinates of a point in the solution set of this system of inequalities.

6.   On the same set of coordinate axes, graph the following system of inequalities:
$$0 > 3x - 4 - y$$
$$x + 2y \le 6$$

       State the coordinates of a point that is NOT in the solution set of either inequality graphed in part a.

Determine which of the given points are solutions to the system of inequalities.

		a.		b.		c.	
1.	$2x - 3y > 10$ $x + 4y < 6$	a.	(2, −1)	b.	(4, −7)	c.	(−3, 5)
2.	$x + 2y \le 12$ $x - y > 5$	a.	(4, 1)	b.	(6, −5)	c.	(−10, 6)
3.	$18x - 12y > 80$ $12x - 11y > 12$	a.	(18, −20)	b.	(15, −10)	c.	(−8, 30)
4.	$16x - 24y > 62$ $21x + 17y < 48$	a.	(17, −18)	b.	(−14, 16)	c.	(22, −11)