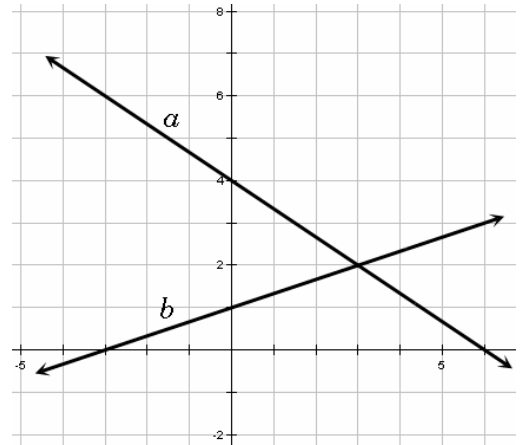


Chapter 5 Review  
 Test Friday

1) Using the graph of the system of equations at the right, do the following:

- a. Write the equation of line *a*.
- b. Write the equation of line *b*.
- c. Write the solution to the system.



2) Solve the following system of equations by using the substitution method. Show your work. Don't forget to find *both the x and y-coordinates*.

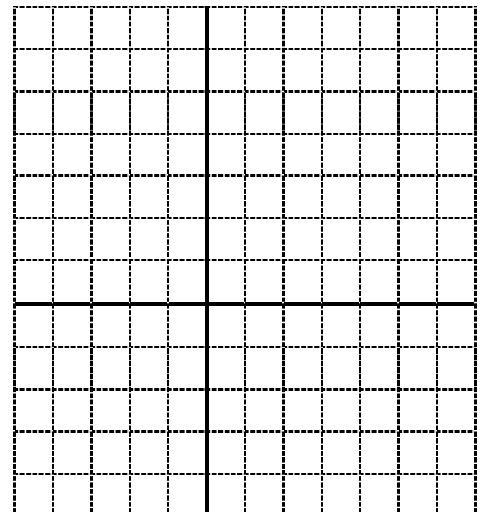
$$\begin{cases} y = 4x + 7 \\ y = 6x + 9 \end{cases}$$

3) Solve the following system of equations by using the elimination method. Show your work. Don't forget to find *both the x and y-coordinates*.

$$\begin{cases} 4x - 3y = -5 \\ x + 3y = 25 \end{cases}$$

4) Graph this system of equations, and then find the intersection point using your graph.

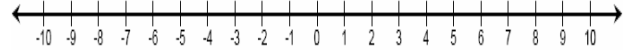
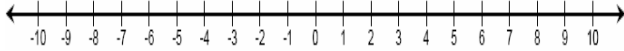
$$\begin{cases} y = 6 - \frac{2}{3}(x + 3) \\ y = -2 + \frac{1}{3}x \end{cases}$$



5) Solve the following inequalities and graph them on the number line provided.

a.  $3x - 5 \leq 10$

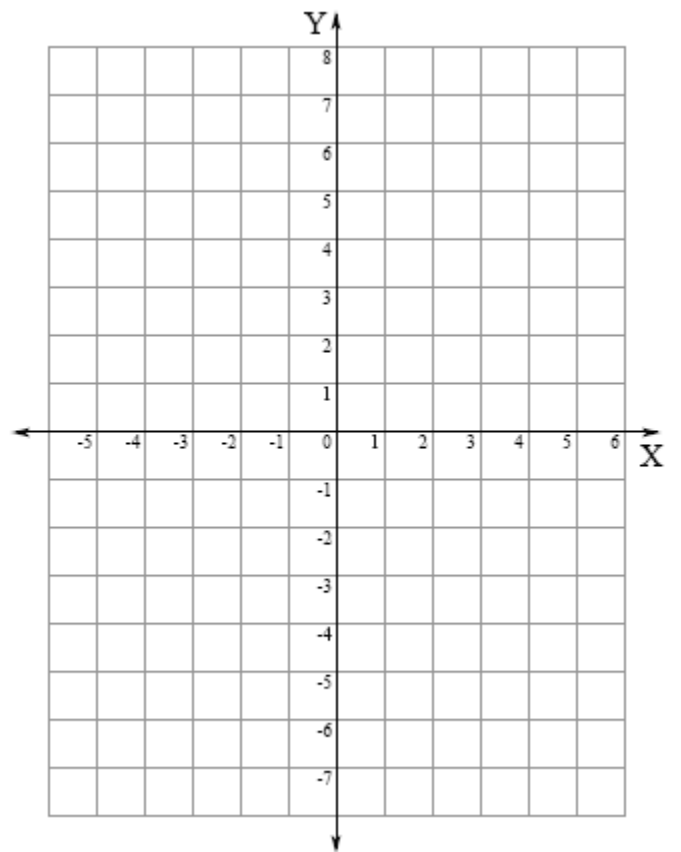
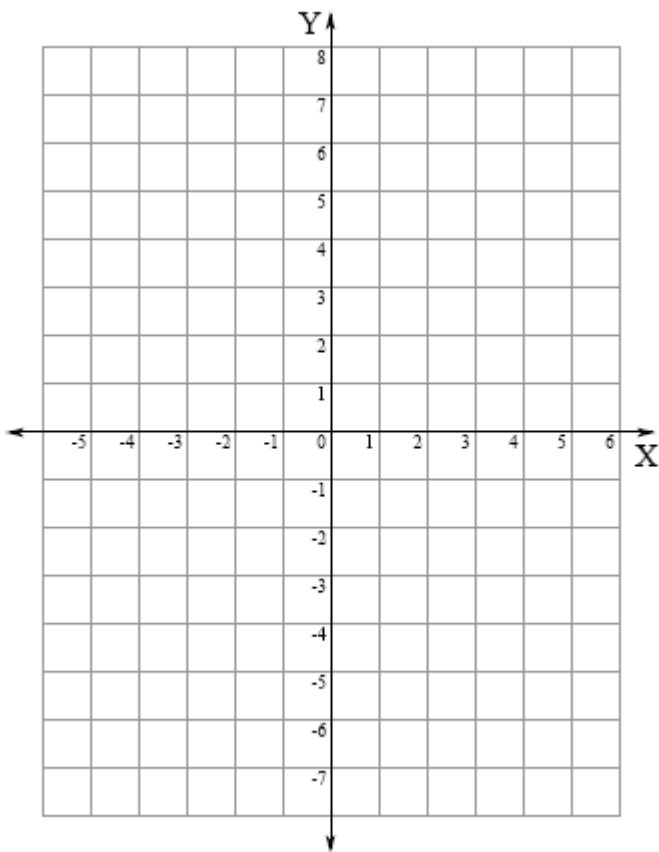
b.  $5 - 3x > -10$



6) Solve and graph the inequality  $4x - 3y \geq -6$

7) Solve and graph the system of inequalities

$$\begin{cases} y \leq -2 + \frac{3}{2}x \\ y > 1 - x \end{cases}$$



8) Determine whether or not the following points are a solution to the system  $\begin{cases} y \leq -2 + \frac{3}{2}x \\ y > 1 - x \end{cases}$  from question number 7.

a. (0,0)      Yes   No

e. (2,1)      Yes   No

b. (6,0)      Yes   No

f. (-4,-1)      Yes   No

c. (0,4)      Yes   No

g. (-4,6)      Yes   No

d. (2,-2)      Yes   No

h. (-2,3)      Yes   No