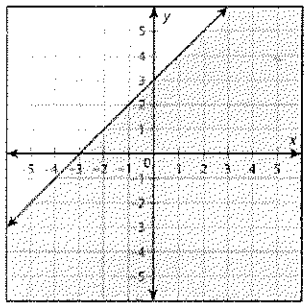
Progress Assessment

Circle the letter of the best answer.

1. Which inequality corresponds to this graph?



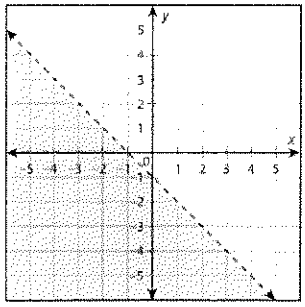
a. $y \leq x - 3$

b. $y \leq x + 3$

c. $y > -x + 3$

d. $y \geq x + 3$

2. Which inequality corresponds to this graph?



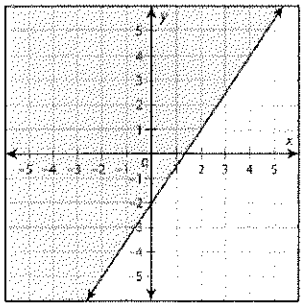
a. $y < -x - 1$

b. $y > x - 1$

c. $y \leq -x - 1$

d. $y \leq x + 2$

3. Which inequality corresponds to this graph?



a. $-3x + 2y \leq 4$

b. $3x + 2y \geq -4$

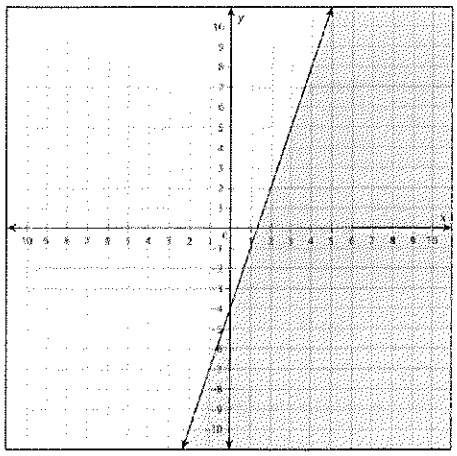
c. $-3x - 2y \geq -4$

d. $3x - 2y \leq 4$

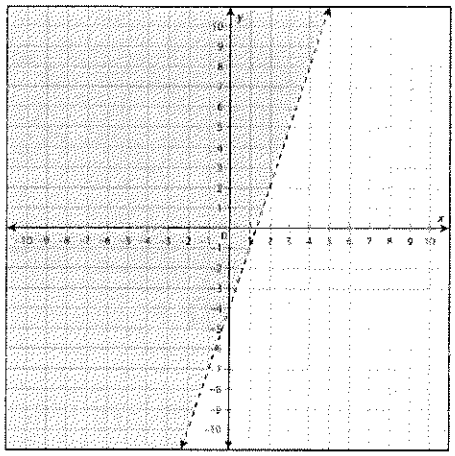
continued

4. Which graph represents the solution to the inequality $3x - y > 4$?

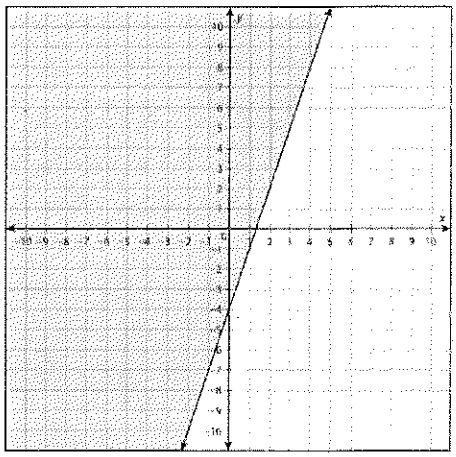
a.



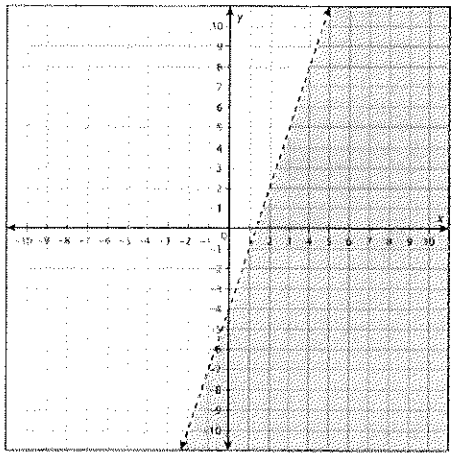
c.



b.



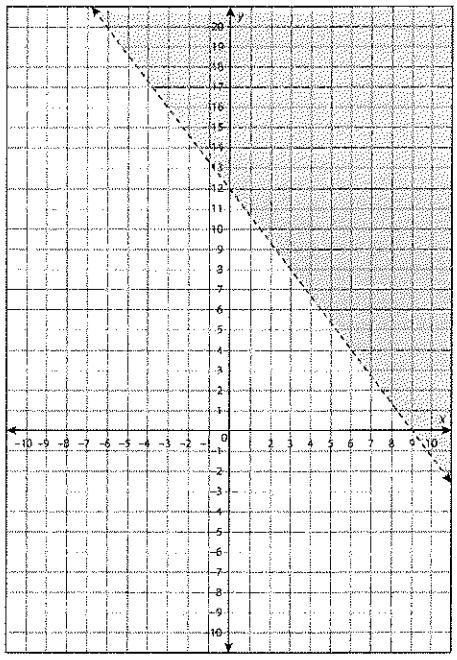
d.



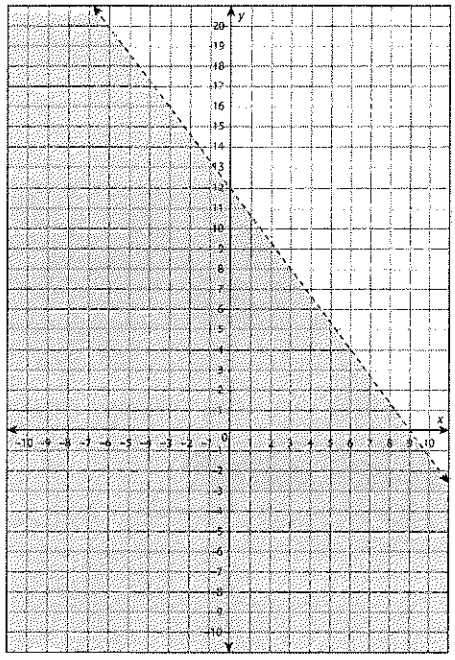
continued

5. Which graph represents the solution to the inequality $4x + 3y \geq 36$?

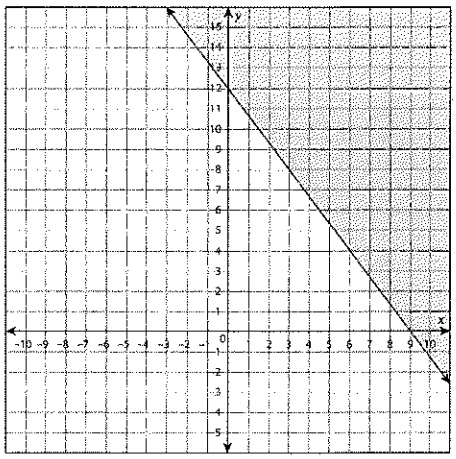
a.



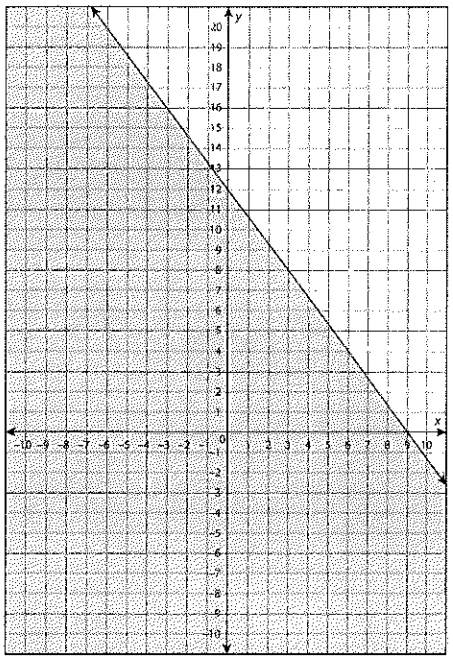
c.



b.



d.

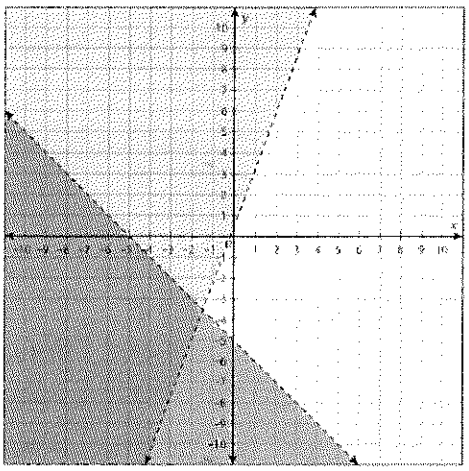


continued

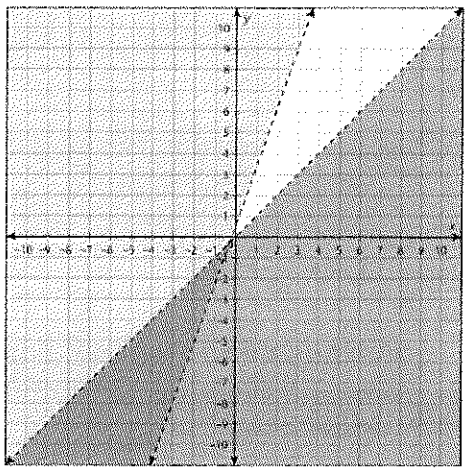
Assessment

6. Which graph represents the solution to the system of inequalities $\begin{cases} y > 3x - 10 \\ y < x - 5 \end{cases}$?

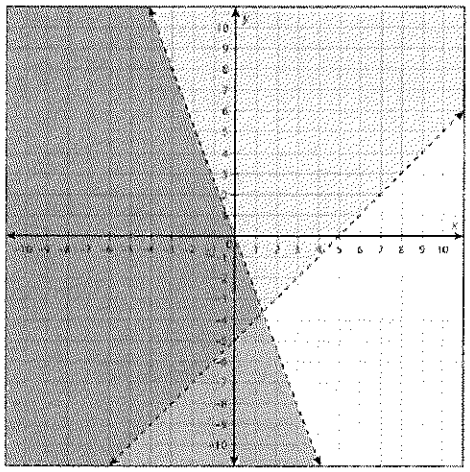
a.



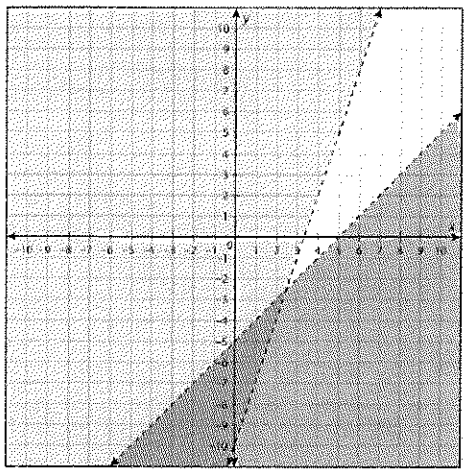
c.



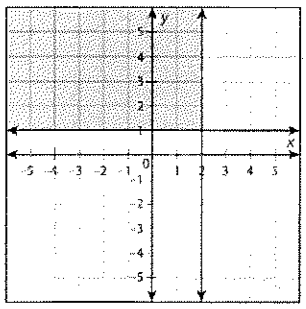
b.



d.



7. Which system of inequalities corresponds to this graph?



a. $\begin{cases} x > 2 \\ y \leq 1 \end{cases}$

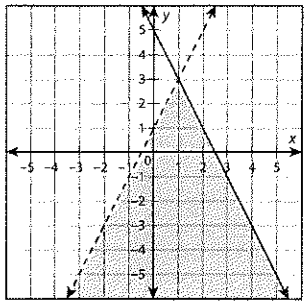
b. $\begin{cases} x \leq 2 \\ y > 1 \end{cases}$

c. $\begin{cases} x \geq 2 \\ y \geq 1 \end{cases}$

d. $\begin{cases} x \leq 2 \\ y \geq 1 \end{cases}$

continued

8. Which system of inequalities corresponds to this graph?



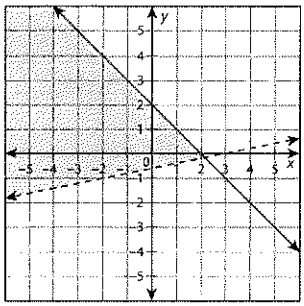
a. $\begin{cases} y \leq 2x+1 \\ y > -2x+5 \end{cases}$

b. $\begin{cases} y > 2x+1 \\ y > -2x+5 \end{cases}$

c. $\begin{cases} y > 2x+1 \\ y \leq -2x+5 \end{cases}$

d. $\begin{cases} y < 2x+1 \\ y \leq -2x+5 \end{cases}$

9. Which system of inequalities corresponds to this graph?



a. $\begin{cases} y < \frac{1}{5}x - \frac{1}{2} \\ y \geq -x+2 \end{cases}$

b. $\begin{cases} y > \frac{1}{5}x - \frac{1}{2} \\ y \leq -x+2 \end{cases}$

c. $\begin{cases} y > \frac{1}{5}x - \frac{1}{2} \\ y \geq -x+2 \end{cases}$

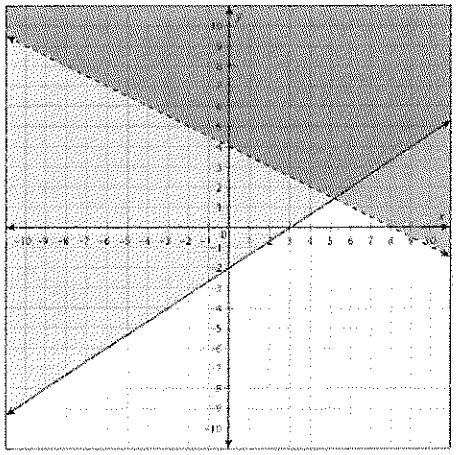
d. $\begin{cases} y < \frac{1}{5}x - \frac{1}{2} \\ y \leq -x+2 \end{cases}$

continued

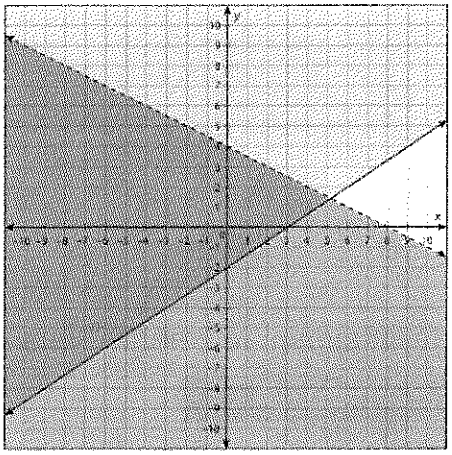
Assessment

10. Which graph represents the solution to the system of inequalities $\begin{cases} 3x+6y>24 \\ 2x-3y\leq 6 \end{cases}$?

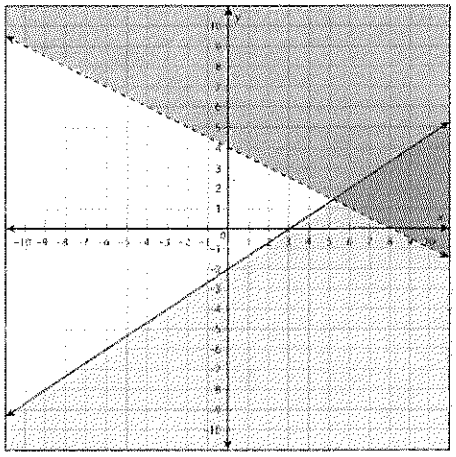
a.



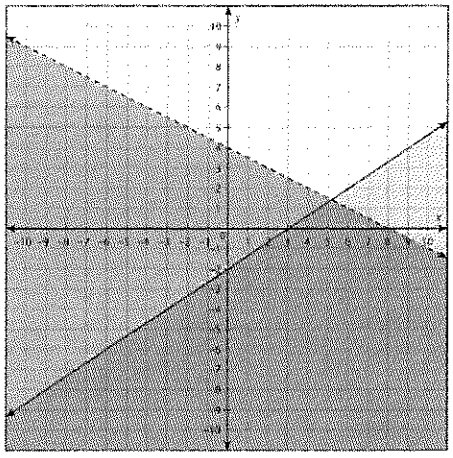
c.



b.



d.



continued

Progress Assessment

Circle the letter of the best answer.

1. Which point is a solution to the system of inequalities $\begin{cases} y \geq -7x+3 \\ y \geq \frac{2}{3}x-3 \\ y \leq -x+7 \end{cases}$?

   a. (2, 6)
   b. (–1, 8)
   c. (0, –3)
   d. (1, 4)

2. Given the system of inequalities in problem 1, which point is NOT a solution?

   a. (3, –1)
   b. (1, –3)
   c. (5, 1)
   d. (2, 4)

3. Given the inequalities $y < 2x - 6$ and $y \leq 4x + 5$, the point (2, 3) is:

   a. a solution to both inequalities
   b. a solution to $y < 2x - 6$ only
   c. a solution to $y \leq 4x + 5$ only
   d. not a solution of either of the inequalities

4. An online company is advertising a subscription service for downloads of e-books. The monthly fee is \$6.50, plus \$1.99 for each downloaded book. You can afford to spend no more than \$15.00 each month on e-books. What is the maximum number of e-books you can download?

   a. 8
   b. 7
   c. 5
   d. 4

5. Used video games are advertised for \$12.00 and new video games are advertised for \$20.00. You have a gift card for \$100.00. Which of the following game combinations can you NOT buy?

   a. 7 used video games and 1 new video game
   b. 4 used video games and 2 new video games
   c. 1 used video game and 4 new video games
   d. 0 used video games and 5 new video games

continued