

33. Write a compound inequality for



- A)  $-2 < x \leq 5$       B)  $x \leq -2$  or  $x > 5$   
 C)  $-2 \geq x < 5$       D)  $-2 \leq x < 5$

34. Write a compound inequality for



- A)  $x < -2$  or  $x \geq 5$       B)  $-2 \geq x < 5$   
 C)  $-2 \leq x < 5$       D)  $x \leq -2$  or  $x > 5$

35. Graph the inequality.  $-4 < x \leq 2$

- A) 
  
 B) 
  
 C) 
  
 D)

36. Graph the compound inequality:  $x < -6$  or  $x \geq 4$

- A) 
  
 B) 
  
 C) 
  
 D)

Solve the absolute-value equation.

37.  $|x-3| = 5$

- A) -2      B) 8, -2      C) -8      D) 2, -8

Solve the following absolute-value inequalities.

38.  $|x-5| > 3$

- A)  $x < 2$  or  $x > 8$       B)  $x \leq 2$  or  $x \geq 8$   
C)  $2 \leq x$  and  $x \leq 8$       D)  $2 < x$  and  $x < 8$

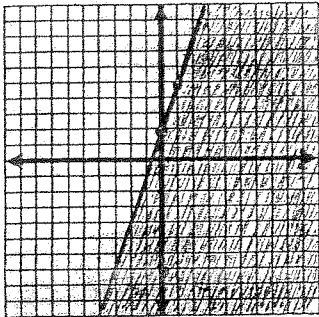
39.  $|2x-4| < 2$

- A)  $1 < x < 3$       B)  $1 \leq x \leq 3$   
C)  $x < 1$  or  $x > 3$       D)  $x \leq 1$  or  $x \geq 3$

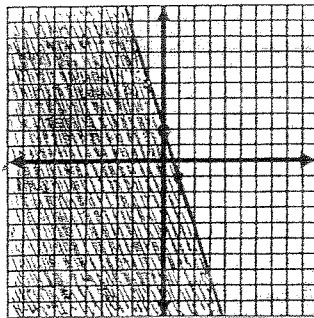
Choose the graph that shows the solution to the inequality.

40.  $y \geq 3x + 2$

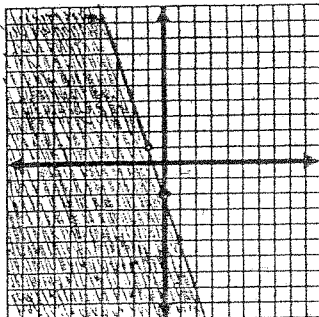
A)



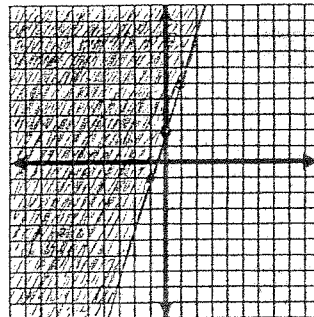
B)



C)

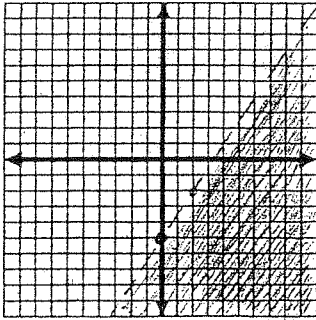


D)

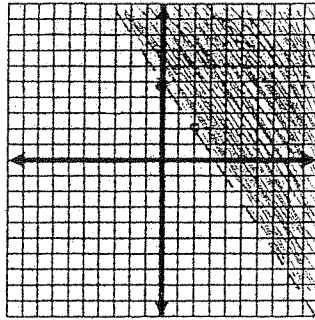


41.  $3x - 2y > 10$

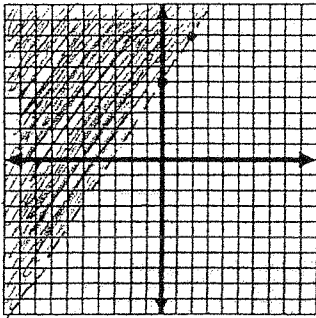
A)



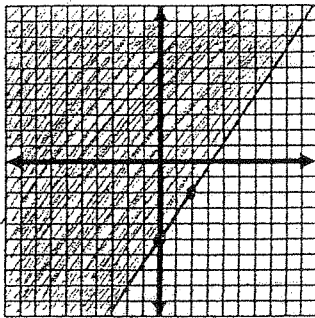
B)



C)

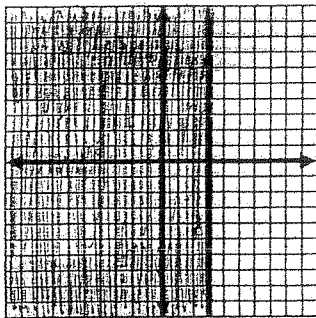


D)

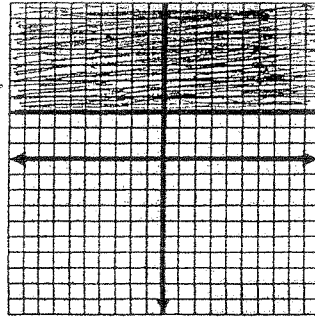


42. Choose the graph that shows the solution to the inequality.  $x \geq 3$

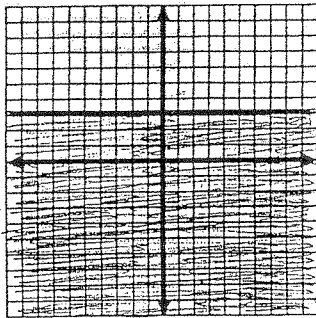
A)



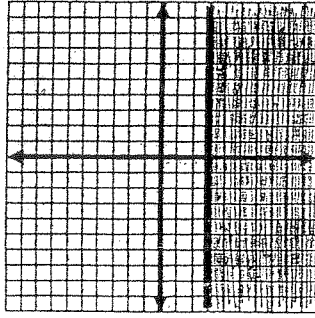
B)



C)



D)



43. Is  $(11, -5)$  a solution to :

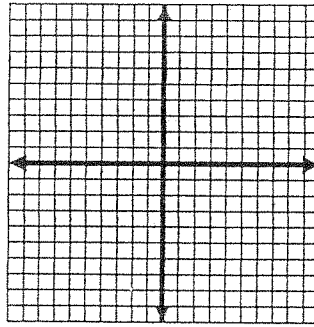
$$\begin{aligned} 5x - 7y &= 90 \\ 2x + 9y &= -23 \end{aligned}$$

A) yes      B) no

44. Solve by the graphing method.

$$y = \frac{1}{2}x - 4$$

$$y = -\frac{5}{4}x + 3$$



- A) (4, 2)      B) (5, -3)  
C) (4, -2)      D) no solution

45. Use substitution to solve the linear system.

$$x + 4y = 10$$

$$y = -3x - 3$$

- A) (-1, 0)      B) (3, 7/4)      C) (-2, 3)      D) no solution

46. Solve the linear system by by linear combinations

$$3x + 2y = -4$$

$$4x - 5y = 33$$

- A) (-2, -5)      B) (0, -2)      C) (2, -5)      D) no solution