Name: _____ Class: _____ Date: _____ ID: A

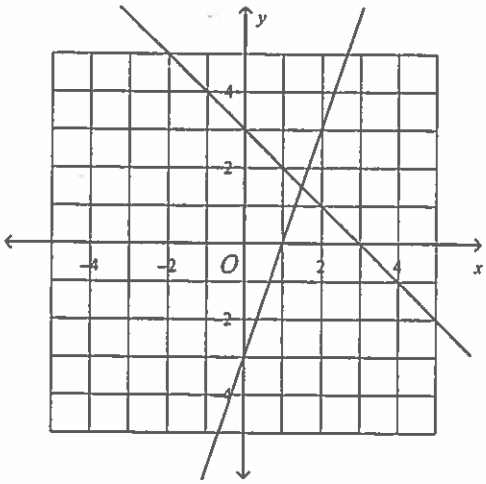
Chapter 7 Practice Test

Multiple Choice

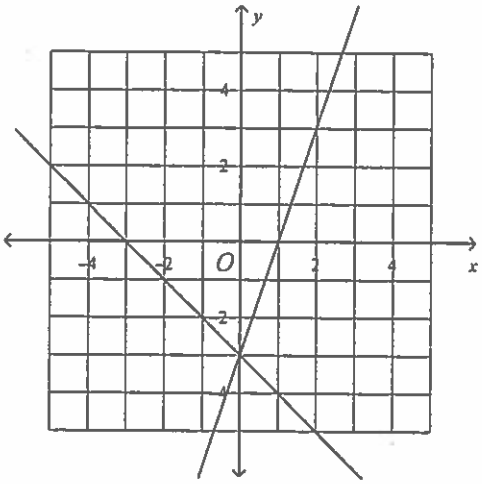
____ 1. By what number should you multiply the first equation to solve using elimination?
$-2x - 2y = 0$ and $-8x + 3y = 44$
a. -4 b. 4 c. −8 d. −2

____ 2. Which graph represents the following system of equations?
$y = 3x + 3$
$y = -x - 3$

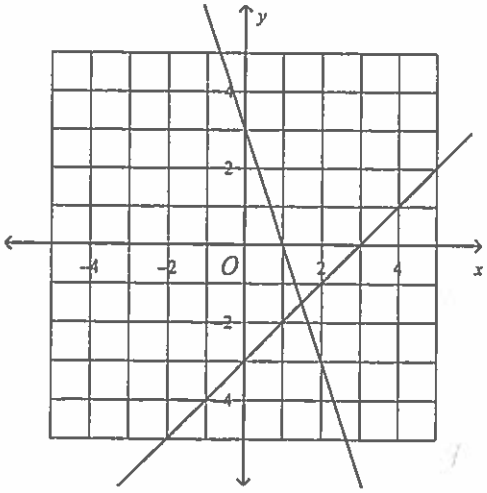
a.



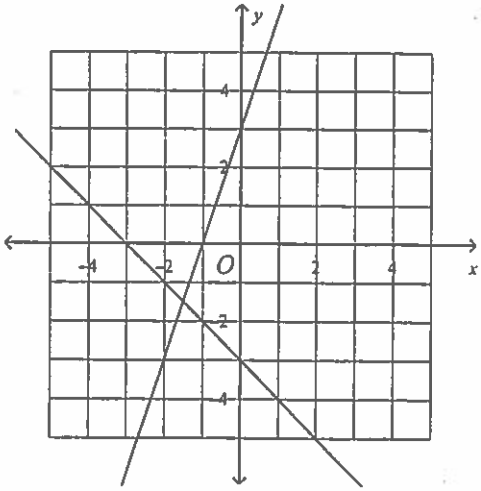
c.



b.



d.



Short Answer

3. Is (5, -2) a solution of the linear inequality?
$y \geq 4x - 5$

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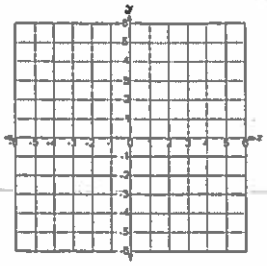
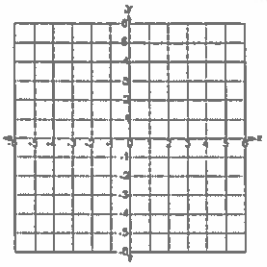
Tell whether the system has *no solution*, *one solution*, or *infinitely many solutions*. You may use the coordinate grid if you wish.

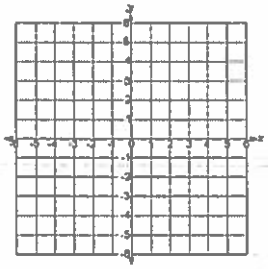
4. $y = -4x + 4$
   $y = 2x - 5$



5. $y = 2x + 2$
   $y = 2x - 5$



6. $y = 2x - 4$
   $y + 4 = 2x$



7. Write the following inequality in slope-intercept form.
   $5x - 5y \geq 70$

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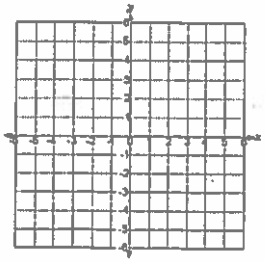
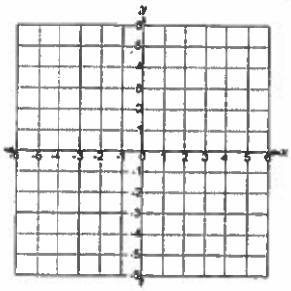
8. Solve the below system of linear equations by graphing.
$y = -1x + 3$

$y = 2x - 6$



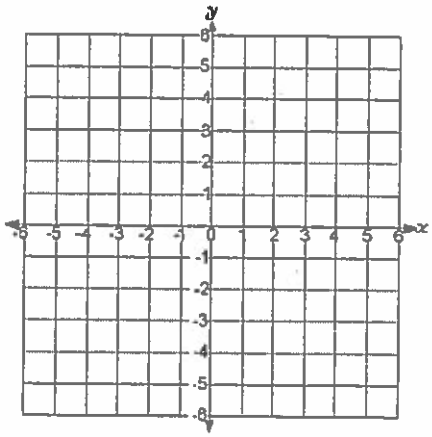
9. Solve the below system of linear equations by graphing.
$-x + y = 3$ Solution: _____

$4x + y = -2$



Graph the inequality.

10. $y > -5x + 3$



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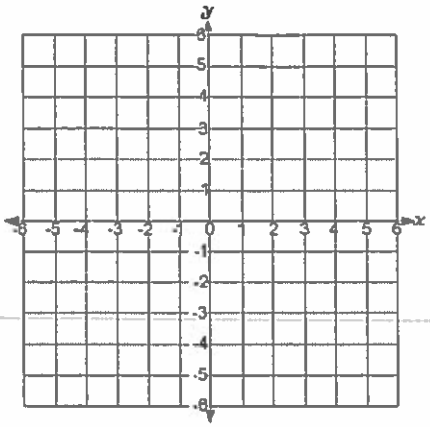
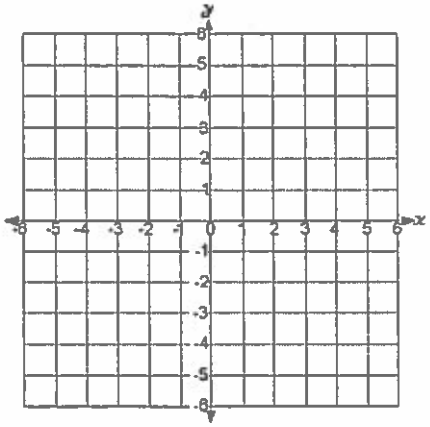
11. $y < 4x - 2$

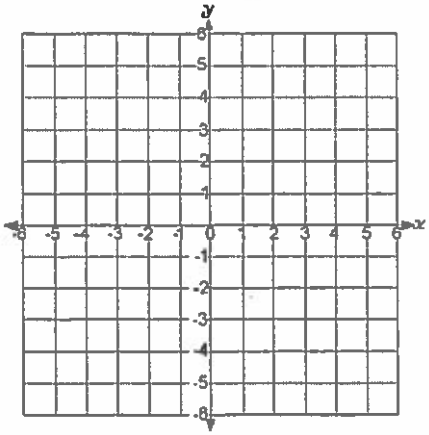


12. $4x + 6y \geq 10$



Solve the system of linear inequalities by graphing.

13. $y \leq -x - 1$
$y \geq 2x + 4$



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Solve the system of equations using substitution.

14. $y = 2x + 3$
$y = 3x + 1$

15. $y = 2x - 10$
$y = 4x - 8$

16. $3x + 2y = 7$
$y = -3x + 11$

Solve the system using elimination.

17. $3x + 3y = -9$
$3x - 3y = 21$

18. $x + 2y = -6$
$3x + 8y = -20$

19. $-10x - 3y = -18$
$-7x - 8y = 11$