

Chapter 5
Form C

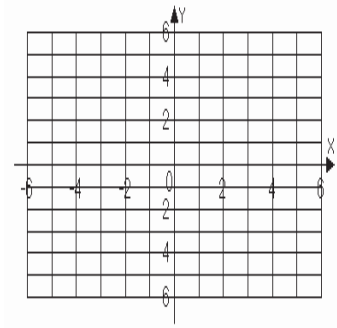
1. Is the ordered pair (4, 3) a solution to the system?
 $y = 2x - 5$
 $3x - y = 9$

1. _____

For problems 2 – 5, solve each system by graphing. If there is no solution or an infinite number of solutions, so state.

2. $x + 2y = -4$
 $x - y = -1$

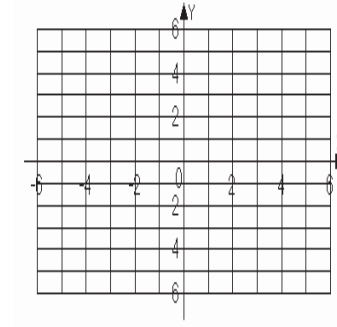
2.



Solution: _____

3. $8x - 2y = 8$
 $y = -3x + 3$

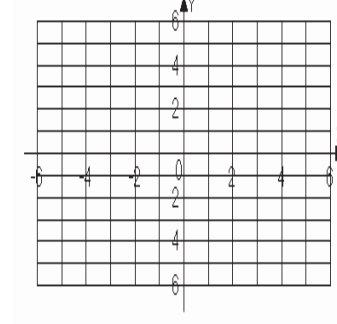
3.



Solution: _____

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

4.



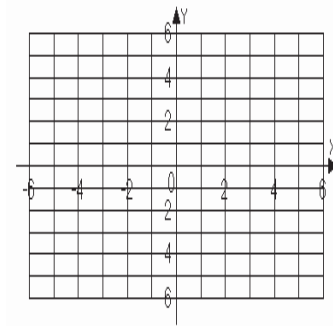
Solution: _____

Name _____

Date _____

5. $x = 2$
 $y = -3$

5.



Solution: _____

For problems 6 – 9, solve each system by the substitution method. If there is no solution or an infinite number of solutions, so state.

6. $17x - 3y = 26$
 $x = -y - 2$

6. _____

7. $8x + 3y = -16$
 $6x - y = 40$

7. _____

8. $y = \frac{2}{3}x - 5$
 $4x - 6y = 30$

8. _____

9. $x = 2y - 4$
 $x = 5y - 16$

9. _____

For problems 10 – 13, solve each system by the addition method. If there is no solution or an infinite number of solutions, so state.

10. $x + 3y = 20$
 $-x - 4y = -10$

10. _____

11. $4x + 3y = 12$
 $2x - 4y = 6$

11. _____

12. $5x + 3y = 15$
 $2x - y = 6$

12. _____

13. $3x + 4y = 0$
 $3x - y = 15$

13. _____

Name _____

Date _____

For problems 14 – 15, solve each system by the method of your choice. If there is no solution or an infinite number of solutions, so state.

14. $x - 4y = 8$
 $2x - 8y = 6$

14. _____

15. $y + 3 = 0$
 $4x + 3y = 23$

15. _____

16. The daily demand model for a newly released CD is given by $N = -10p + 300$. The daily supply model for the same CD is $N = 5p + 60$. For these models, p is the price of the CD and N is the number of CDs sold or supplied each day by the store. Find the price at which supply and demand are equal

16. _____

17. The total cost of 2 jackets and 3 shirts is \$225. The cost of a jacket is three times the cost of a shirt. Find the cost of a jacket and a shirt.

17. _____

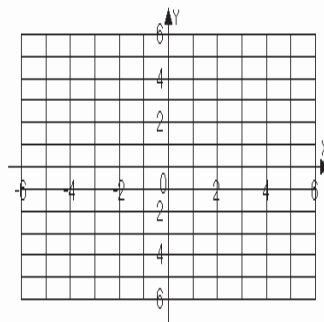
18. The sum of a first and second number is 184. Three times the first number decreased by 212 is equal to the second number. Find the two numbers.

18. _____

For problems 19 – 20, graph the solutions of each system of linear inequalities.

19. $4x + y > 0$
 $2x - y < 0$

19.



20. $-4x + 4y \geq 8$
 $y \leq 1$

20.

