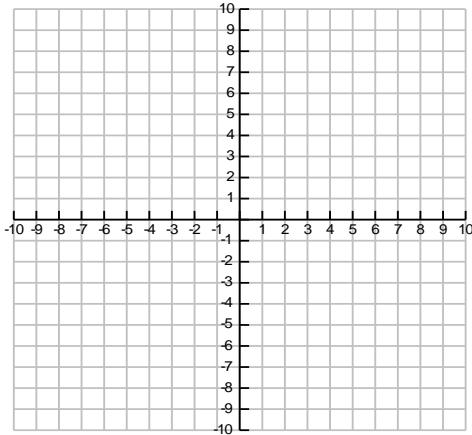
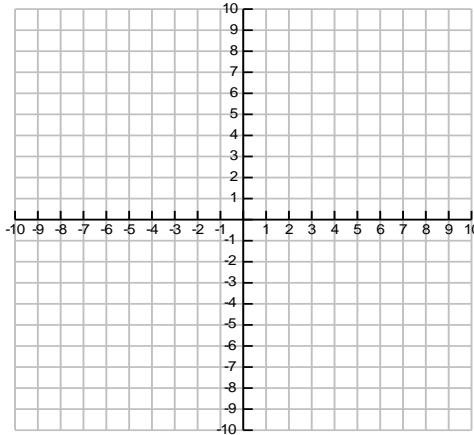


**(Sect 7.1) Solve these equations through graphing. Plot at least five points.**

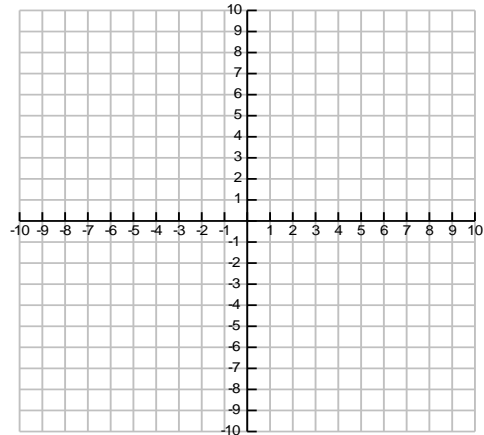
1)  $\begin{cases} y = x \\ y = -3 - 2x \end{cases}$  Solution Point: \_\_\_\_\_



2)  $\begin{cases} 2x - y = -2 \\ 4x - 2y = 2 \end{cases}$  Solution Point: \_\_\_\_\_



3)  $\begin{cases} 4x - 5y = 0 \\ 6x - 5y = 10 \end{cases}$  Solution Point: \_\_\_\_\_



**(Sect 7.2) Solve these problems through SUBSTITUTION. Show all work or no credit will be given.**

4)  $\begin{cases} y = x - 3 \\ 4x - y = 33 \end{cases}$  Solution Point: \_\_\_\_\_

5)  $\begin{cases} x - 2y = 6 \\ y = \frac{1}{2}x - 3 \end{cases}$  Solution Point: \_\_\_\_\_

6)  $\begin{cases} x - y = -2 \\ 2x + y = 2 \end{cases}$  Solution Point: \_\_\_\_\_

**(Sect 7.3) Solve these problems through ELIMINATION. Show all work or no credit will be given.**

7)  $\begin{cases} -2x + 3y = 6 \\ 2x + y = 10 \end{cases}$  Solution Point: \_\_\_\_\_

8)  $\begin{cases} 2x + 4y = 10 \\ x + 2y = 4 \end{cases}$  Solution Point: \_\_\_\_\_

9)  $\begin{cases} 4x + 11y = -15 \\ -6x - 16y = 22 \end{cases}$  Solution Point: \_\_\_\_\_

**(Sect 7.4) Setup the two equations, variables and solve.**

10) You have a test worth 100 points containing a total of 40 questions. There are 2-point questions and 4-point questions on the test. *Write* the system of equations in the blanks below. **DO NOT SOLVE.**

X: \_\_\_\_\_  
 Y: \_\_\_\_\_

{ \_\_\_\_\_  
 \_\_\_\_\_

11) I have nickels and dimes in my pocket worth 75 cents. The total number of coins I have is 11.

X: \_\_\_\_\_  
 Y: \_\_\_\_\_

{ \_\_\_\_\_  
 \_\_\_\_\_

Solution Point: \_\_\_\_\_

12) A rectangle has a length that is four more than double the width. The perimeter is 26. Find the length and width.

X: \_\_\_\_\_  
Y: \_\_\_\_\_

{ \_\_\_\_\_  
\_\_\_\_\_

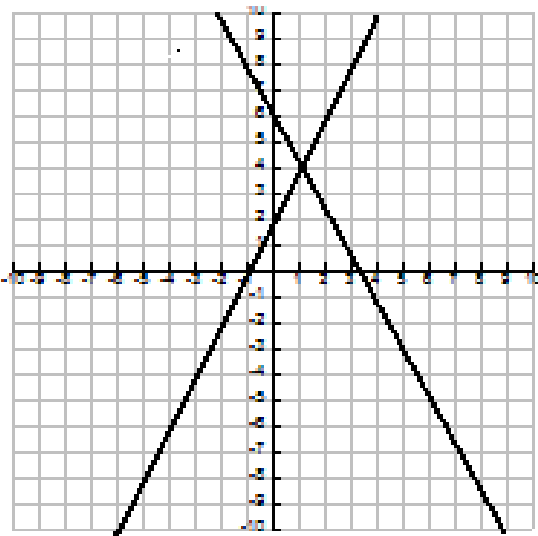
Solution Point: \_\_\_\_\_

13) Aiden says that  $(-4, 1)$  is a solution for the system of equations  $2x - 3y = -11$  and  $2x + 2y = 6$ . His friend Beth says it is not a solution to the system. Who is right **Aiden** or **Beth** (Circle one) Defend your answer by showing and explaining your work.

14) The table below shows ordered pairs from two functions,  $y_1$  and  $y_2$ . Write the solution to the system of these two functions.

$x$	$y_1$	$y_2$
8	13	15
9	15	16
10	17	17
11	19	18

**Use the graph to answer the following three questions below.**



15) The graphs of the linear equations  $y = -2x + 6$  and  $y = 2x + 2$  are shown below. If  $-2x + 6 = 2x + 2$  what is the value of  $x$ ?

16) What type of solution is this? Circle the appropriate terms:  
**Consistent   Inconsistent   Independent   Dependent**

17) Which of the following choices best describes this graph?  
[A] David has \$2 and makes \$2 per hour. Michelle started at \$6 dollars and hour and decides to donate \$2 per hour. The meeting point is where both of their money will be the same.

[B] Blossom has \$2 dollars and owes \$2 each hour for taxes. Timothy has \$6 dollars and makes \$2 hour an hour working. The meeting point is where both of their budgets will be same.

18) Mark and Amy have 84 comic books altogether. Mark has 6 fewer than twice the amount that Amy has. Which system of equations can be used to find out how many comic books that Mark has?

19) Which situation best represents the system of equations,  $\begin{cases} 5x + 2y = 50 \\ x + y = 12 \end{cases}$  ?

[A] Mary had \$50. She spent \$5 for each pizza and \$2 for each drink.

[B] A quiz in Algebra was worth 50 points. The multiple choice was counted as 5 points and the true/false are two points each.

[C] There are 50 boxes of paper in the storage room. Some of the boxes cost \$5 a box and some boxes cost \$2. There are 12 boxes altogether.