Algebra 1 B **Name** _____

Unit 6 Review **Period** _____ **Date** _____

Objective 1 – Determine whether the point is a solution of the system.

1. $(-4,-5)$; $\begin{cases} x-y=1 \\ x+y=-9 \end{cases}$

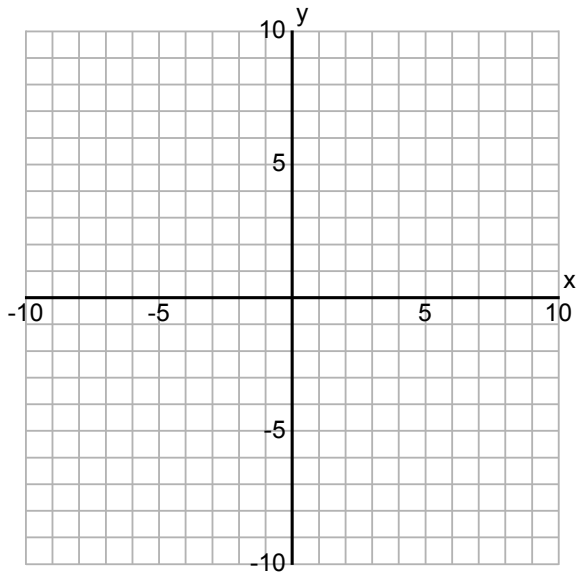
2. $\left(6, \frac{1}{2}\right)$; $\begin{cases} 3x+2y=19 \\ x+8y=9 \end{cases}$

3. $(3,\ 1)$; $\begin{cases} 2x-3y=3 \\ x+4y=7 \end{cases}$

4. $(2,-3)$; $\begin{cases} x+3y=-7 \\ 6x+y=-9 \end{cases}$

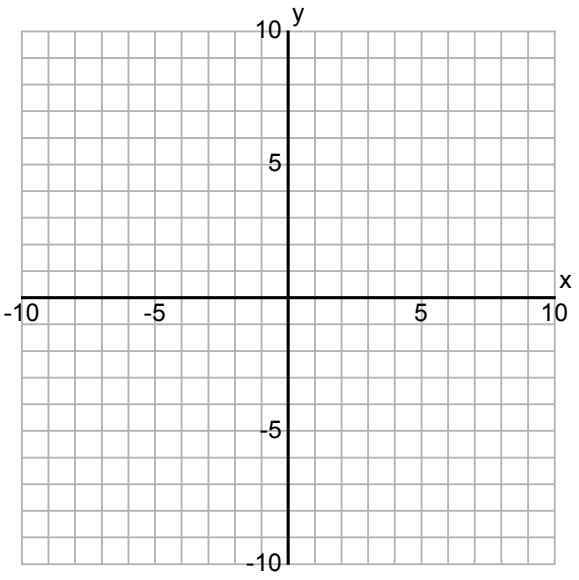
Objective 2 – Solve the system of linear equations using the GRAPHING METHOD.

5. $\begin{cases} 2x-7y=-14 \\ 2x-3y=-6 \end{cases}$



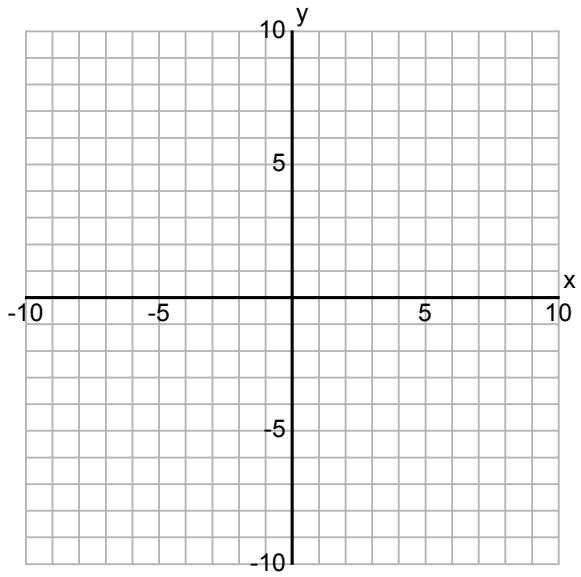
Solution: _____

6. $\begin{cases} y=-3x-2 \\ 3x+y=4 \end{cases}$



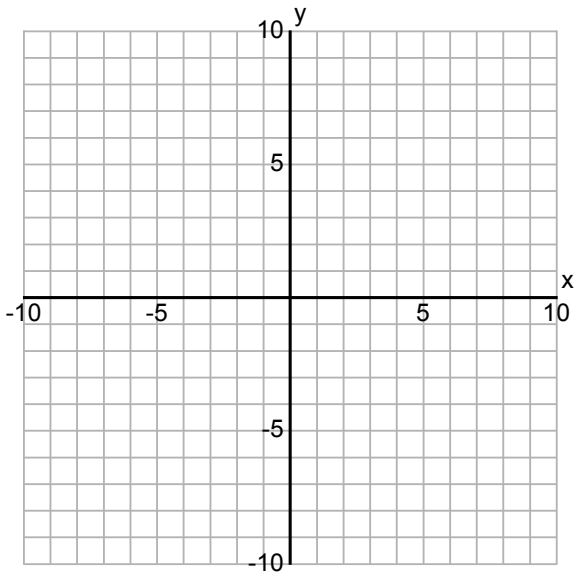
Solution: _____

7. $\begin{cases} 2x + y = -5 \\ y = 2x + 3 \end{cases}$



Solution: _____

8. $\begin{cases} 2x - y = -2 \\ 3y = 6x + 6 \end{cases}$



Solution: _____

Objective 3 – Solve the system of linear equations using the SUBSTITUTION METHOD.

9. $\begin{cases} x = 4y - 1 \\ 3x + 5y = 31 \end{cases}$

10. $\begin{cases} x - y = 3 \\ x + y = -5 \end{cases}$

11. $\begin{cases} 2x - 3y = 3 \\ x + 4y = 7 \end{cases}$

12. $\begin{cases} 4x + y = -19 \\ 7x - y = 8 \end{cases}$

Objective 4 – Solve the system of linear equations using the ELIMINATION METHOD.

13. $\begin{cases} 4x + 3y = 0 \\ 5x - 3y = 27 \end{cases}$

14. $\begin{cases} x + 3y = 7 \\ x + 3y = -4 \end{cases}$

15. $\begin{cases} 4x + 3y = 19 \\ 7x - 6y = -23 \end{cases}$

16. $\begin{cases} 3x + 2y = -1 \\ 4x - 5y = -32 \end{cases}$

Objective 5 – Write, solve and interpret the solution of a system of linear equations.

17. Kara and Bre went shopping on Black Friday. Kara bought three pairs of jeans and six shirts that cost a total of $104.25. Bre spent $112.15 on four pairs of jeans and five shirts. Find the cost of each pair of jeans and each shirt.

    Equation 1: _____

    Equation 2: _____

    Solution: _____

    Write a sentence answering the question above:

18. Ms. Watson, Mrs. Brodbeck and Mr. Chilcoat went to the farmer's market. Ms. Watson bought 12 oranges and 7 apples for $5.36. Mrs. Brodbeck bought 8 oranges and 5 apples for $3.68. If Mr. Chilcoat bought 6 oranges and 6 apples, how much did he pay?

    Equation 1: _____

    Equation 2: _____

    Solution: _____

    Write a sentence answering the question above:

19. Darren went to the bank to cash his paycheck of $125. The teller told him that he could only give him $20 bills and $5 bills. Johnny received a total of 13 bills. How many $20 bills did Johnny receive?

    Equation 1: _____

    Equation 2: _____

    Solution: _____

    Write a sentence answering the question above: