

Name: _____

Unit 2: Linear Functions

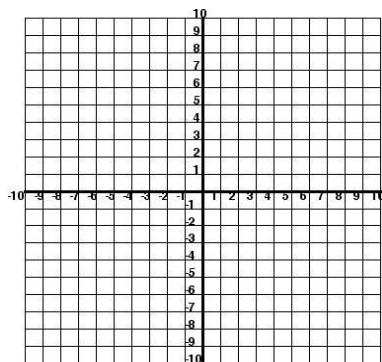
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Homework 4: Solving Systems of Equations by Graphing & Substitution

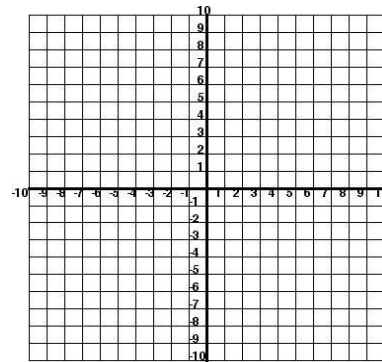
**** This is a 2-page document! ****

Directions: Solve each system of equations by graphing. Clearly identify your solution.

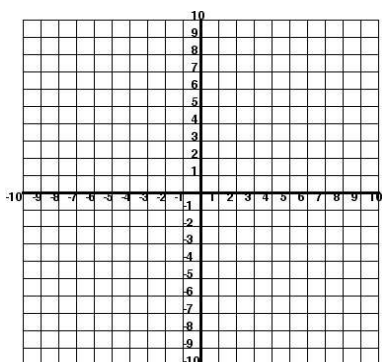
1. $y = \frac{1}{4}x + 1$
 $y = -x - 9$



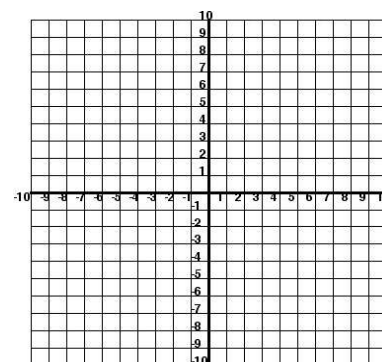
2. $y = 2x - 8$
 $13x + 2y = 18$



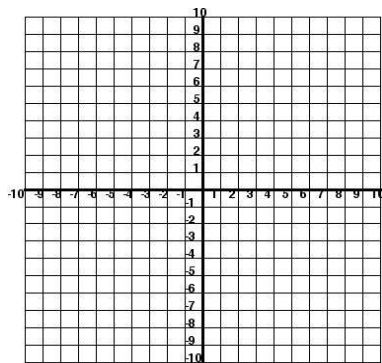
3. $3x + 7y = -63$
 $x - y = -1$



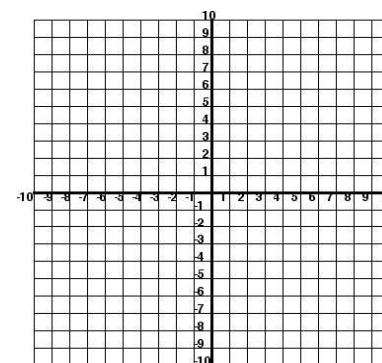
4. $3x - 2y = 10$
 $x = 2$



5. $-6y = 36 - x$
 $4x - 3y = -3$



6. $-12x = 30y + 60$
 $2x + 5y = 20$



Directions: Solve each system of equations by substitution. Clearly identify your solution.

7. $y = -2x + 14$
 $y = 5x - 7$

8. $y = -4x - 9$
 $7x + 4y = -27$

9. $x - y = -9$
 $8x - 3y = -62$

10. $7x - y = 34$
 $2x + 3y = -10$

11. $2x = 16 - 8y$
 $x + 4y = 25$

12. $-\frac{2}{3}x - 7y = 6$
 $x + 3y = -9$

13. $2x - 9y = 26$
 $6x - 2y = -22$

14. $3x - 2y = 10$
 $9x + 4y = -50$