

Algebra I Class Worksheet #2 Unit 9 page 1 _____

Solve each of the following systems of equations using the **substitution method**. Show your work neatly organized.

1. $4x + 3y = 11$ $x =$ _____
 $y = 2x - 3$ $y =$ _____

2. $2x + 5y = 11$ $x =$ _____
 $y = 2x + 7$ $y =$ _____

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

4. $2x + 5y = 3$ $x =$ _____
 $x = 3y - 4$ $y =$ _____

5. $y = x - 2$ $x =$ _____
 $2x + 3y = 19$ $y =$ _____

6. $y = 3x + 1$ $x =$ _____
 $2x + y = -9$ $y =$ _____

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Solve each of the following systems of equations using the **substitution method**. Show your work neatly organized.

7. $x = 4y + 1$ $x = \underline{\hspace{2cm}}$
 $4x - 3y = -9$ $y = \underline{\hspace{2cm}}$

8. $x = 2y - 5$ $x = \underline{\hspace{2cm}}$
 $3x + 4y = 25$ $y = \underline{\hspace{2cm}}$

9. $4x - 3y = -9$ $x = \underline{\hspace{2cm}}$
 $y = 2x + 1$ $y = \underline{\hspace{2cm}}$

10. $y = 3x - 2$ $x = \underline{\hspace{2cm}}$
 $2x - 5y = -16$ $y = \underline{\hspace{2cm}}$

11. $2x + 3y = 4$ $x = \underline{\hspace{2cm}}$
 $y = 2x - 1$ $y = \underline{\hspace{2cm}}$

12. $5x - 3y = 1$ $x = \underline{\hspace{2cm}}$
 $x = y - 2$ $y = \underline{\hspace{2cm}}$