

Name: _____ Hr: _____

Systems with Substitution

Solve the systems of equations using substitution.

*Think: What do I circle?
Where do I put it?*

1. I.D. one variable that is by itself
*circle the other side.
2. Send in substitute for x (or y)
*put circled part into other equation for lone variable.
3. There should only be one variable now
*solve for the variable that's left
4. Plug answer into an equation
*find the other variable
5. ✓ the solution in **both** equations

1. $y = 4x + 6$
 $y = 2x$

3. $y = 2x - 10$
 $y = 4x - 8$

2. $y = 2x + 3$
 $y = 3x + 1$

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

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5. $-2x + y = 6$
 $y = -4x - 12$

8. $y = -2x + 6$
 $3y - x = -3$

6. $3x + 5y = 10$
 $y = x + 2$

9. $3x + 4y = 11$
 $y = 2x$

7. $3x + 2y = 7$
 $y = -3x + 11$

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