Systems of Equations - Day 5 Notes

Name	
Date	Period

Solving Systems using Substitution - Part 1

- Solve both equations for y.
- Set them equal to each other.
- Solve the resulting equation for x.
- Solve for y using substitution.

Example: y = 3x

$$2x + y = 10$$

First, we must solve the second equation for y to get y = -2x + 10. Now that both equations are solve for y, we need to set them equal to each other.

3x = -2x + 10 Since y = 3x and y = -2x + 10, then 3x and -2x + 10 must also be equal. We will use this equation to solve for the x-value.



Practice.

1.
$$y = 6x$$

 $y = 4x + 18$
2. $y = -2x + 4$
 $y = x - 2$

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3.
$$x + y = 6$$

 $y = x$
4. $y = x + 1$
 $x + y = 5$

5. 3x - y = 5-x+2y=0

6. y = -x + 3x - y = -1