## Using Substitution to Solve Systems of Equations Activity

**Directions** Match the system of equations with the modified equation that can be used to solve the system of equations by substitution. Draw a line between the system and the equation used to substitute.

2x + y = 11 x - y = 2	x = -2y + 6
4x - y = 7 5x - 8y = 2	x = -6y + 5
2x + 2y = 4 3x - 3y = 18	y = -2x + 1
2x + y = 1 10x - 4y = 2	y = 4x - 7
-3x - y = -13 X + 2y = 6	x = y + 2
2x - 6y = 4 X + 6y = 5	x = -y + 2

## **Activity Answers**

2x + y = 11 x - y = 2	x = y + 2
4x - y = 7 5x - 8y = 2	y = 4x - 7
2x + 2y = 4 3x - 3y = 18	x = -y + 2
2x + y = 1 10x - 4y = 2	y = -2x + 1
-3x - y = -13 X + 2y = 6	x = -2y + 6

2x - 6y = 4X + 6y = 5 x = -6y + 5

## Substitution Scavenger Hunt Information Sheet

Use the following systems of equations and solutions to create a Math Scavenger Hunt for the students. The systems in the left column should be placed on the same card as the solutions next to them. **Note** The solutions do not match the systems they are next to!

X - 2y = 0 2x - 5y = -4	(12, 17)
-1/2 x - y = -3 X + 3y = 6	(4, 1)
y = 8 - x 4x - 3y = -3	(2, 3)
$\begin{array}{l} x = 8y \\ x - 4y = 12 \end{array}$	(6, 0)
y = x + 5 y = 2x - 7	(24, 3)
-x + 2y = 4 5x - 3y = 1	(2, 1)
-3x - y = -13 x + 2y = 6	(3, 5)
4x - y = 7 5x - 8y = 2	(4, 4)

## Substitution Scavenger Hunt Information Sheet Answers

Use the following systems of equations and solutions to create a Math Scavenger Hunt for the students. The systems in the left column should be placed on the same card as the solutions next to them.

