## 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.
$2 x+y=11$
$x-y=2$

$$
x=-2 y+6
$$

$4 x-y=7$
$5 x-8 y=2$

$$
x=-6 y+5
$$

$2 x+2 y=4$
$3 x-3 y=18$

$$
y=-2 x+1
$$

$2 x+y=1$
$10 x-4 y=2$

$$
y=4 x-7
$$

$-3 x-y=-13$
$x+2 y=6$

$$
x=y+2
$$

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

$$
x=-y+2
$$

## Activity Answers

$$
\begin{aligned}
& 2 x+y=11 \\
& x-y=2 \\
& 4 x-y=7 \\
& 5 x-8 y=2 \\
& 2 x+2 y=4 \\
& 3 x-3 y=18 \\
& 2 x+y=1 \\
& 10 x-4 y=2 \\
& -3 x-y=-13 \\
& x+2 y=6 \\
& x=-2 y+6 \\
& 2 x-6 y=4 \\
& x+6 y=5 \\
& y=-2 x+1 \\
& x=-6 y+5 \\
& x=y+2 \\
& y=4 x-7 \\
& x=-y+2
\end{aligned}
$$

## Substituriom Scavenger Mum lifiormetion 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!

$$
\begin{align*}
& x-2 y=0  \tag{12,17}\\
& 2 x-5 y=-4
\end{align*}
$$

$(4,1)$
$-1 / 2 x-y=-3$
$x+3 y=6$

$$
\begin{align*}
& y=8-x  \tag{2,3}\\
& 4 x-3 y=-3
\end{align*}
$$

$x=8 y$
$x-4 y=12$
$y=x+5$
$y=2 x-7$
$-x+2 y=4$
$5 x-3 y=1$
$-3 x-y=-13$
$(3,5)$
$x+2 y=6$
$4 x-y=7$
$5 x-8 y=2$

## Substrintion Scovenger Munt Lntornation Sheet AlnSWers

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.


