## Math Virtual Learning

## Algebra 1 S-1

## April 24, 2020

## Algebra 1 S1 <br> Lesson: April 24, 2020

Objective/Learning Target:
Students will select the best method to solve a system of linear equations.

## Brainstarter

Click the link to practice solving systems using elimination.


## Let's Get Started

 Watch Video:

Remember "Take Notes"


$$
\begin{align*}
& 10 x-4 y=-4 \\
& -20 x+9 y=14 \\
& \text { Elimination } \\
& \begin{array}{l}
(2) 10 x-(2) 4 y=(2)-4 \\
-20 x+9 y=14 \\
20 x-8 y=-8 \\
\frac{-20 x+9 y=14}{1 y}=6 \\
10 x-4 y(6)=-4 \\
10 x-24=-4 \\
+24+24 \\
\frac{10 x}{10}=\underline{20} 10 \\
x=2 \\
10(2)-4(6)=-4 \\
\hline
\end{array} \\
& \begin{array}{l}
10-24=-4
\end{array} \\
& \hline
\end{align*}
$$



$$
\begin{aligned}
& y=4 x+3 \\
& y=-x-2
\end{aligned}
$$

Graphing

$(-1,-1)$

Now it's your turn!

1). $-3 x-3 y=3$

$$
y=-5 x-17
$$

2). $8 x+y=-16$

$$
-3 x+y=-5
$$

$3)$.

$$
\begin{aligned}
& y=\frac{1}{3} x-3 \\
& y=-x+1
\end{aligned}
$$

4).

$$
\begin{aligned}
& y=-2 \\
& 4 x-3 y=18
\end{aligned}
$$

## Answer Key:

## Once you have completed the problems, check your answers here.

1). Substitution

$$
\begin{gathered}
-3 x-3 y=3 \\
y=-5 x-17 \\
(-4,3)
\end{gathered}
$$

3). graphing

$(3,-2)$
2). Elimination

$$
\begin{gathered}
8 x+y=-16 \\
-3 x+y=-5 \\
(-1,-8)
\end{gathered}
$$

4). substitution

$$
\begin{aligned}
& y=-2 \\
& 4 x-3 y=18 \\
& (3,-2)
\end{aligned}
$$

## Additional Practice:

Click on the links below to get additional practice and to check your understanding!

## Solution to a System of Equations



