

Solve using the provided method:

1. Substitution:

$(3, 1)$ $x = 3y$
 $2x + 4y = 10$
 $2(3y) + 4y = 10$ $x = 3y$
 $6y + 4y = 10$ $x = 3(1)$
 $\frac{10y}{10} = \frac{10}{10}$ $x = 3$
 $y = 1$

2. Elimination:

$x = 2y + 3$
 $4x - 8y = 12$
 $-4(x - 2y = 3)$
 $4x - 8y = 12$

 $-4x + 8y = -12$
 $4x - 8y = 12$

 $0 = 0$
 $4x - 8y = 12$
 $-4x$ $-4x$

 $-8y = -4x + 12$
 $\frac{-8y}{-8} = \frac{-4x}{-8} + \frac{12}{-8}$
 $y = \frac{1}{2}x - \frac{3}{2}$

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

 $2y = \frac{x-3}{2}$
 $y = \frac{1}{2}x - \frac{3}{2}$

∞ + All Real #'s

3. Graphing:

$y = 2x$
 $5x - y = 9$
 $5x - y = 9$
 $-5x$ $-5x$

 $-y = -5x + 9$
 $\frac{-y}{-1} = \frac{-5x}{-1} + \frac{9}{-1}$
 $y = 5x - 9$
 $y = 2x$

*Refer to green half sheet for steps on calc.

Systems Triples Partner Activity

DUE
10/19/18

1. Cut out all 24 cards
2. Divide the cards evenly between partners
Each partner should have: 4 Solve by Graphing
4 Solve by Substitution
4 Solve by Elimination
3. Solve each card
****SHOW ALL WORK**
4. Match one of each type together that have the same solution
(1 Graphing, 1 Substitution and 1 Elimination)
5. Staple the triples in the following order:
GRAPHING, SUBSTITUTION then ELIMINATION

SOLUTIONS

$(-3, 4)$

\emptyset

$(-2, -5)$

$(8, 0)$

$(0, -3)$

$(1, -7)$

$(9, 2)$

∞