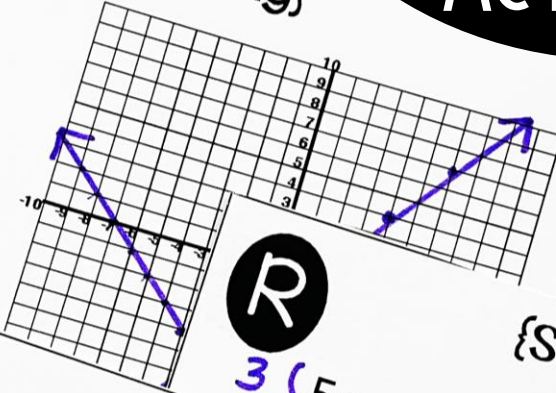


TRIPLES ACTIVITY

A

$$\begin{cases} 3x - 2y = 4 \\ x + y = -7 \end{cases}$$

{Solve by Graphing}



$(-2, -5)$

R

$$3(5x - 4y = 33)$$

{Solve by Elimination}

$$\begin{array}{r} -5) -37 \\ 2 \end{array}$$

$$\begin{array}{r} 15x - 12y = 99 \\ -15x - 15y = -120 \\ \hline 3y = 21 \end{array}$$

L

$$9x - 2y = 23$$

{Solve by Graphing}

F

$$\begin{cases} 3x + y = -4 \\ x - y = 8 \end{cases}$$

Systems of EQUATIONS

Created by: ALL THINGS ALGEBRA®

SYSTEMS OF EQUATIONS

"Triples" Activity!

Objective: To practice solving systems of equations by graphing, substitution, and elimination. Infinite and no solution cases included.

Description: There are 24 cards in which there are 8 sets of three cards with the same answer. Students must solve each card in order to find the matches.

Ways to use this activity:

- (1) Print the cards and distribute to the students. Students work individually or in pairs to solve all 24 systems. If working in pairs, I recommend dividing it up so that they each get the same number of graphing, substitution, and elimination cards. They can show their work on the cards, or on a separate sheet of paper if you prefer. They cut out the cards and match the triples together. I have my student staple their triples together and put them in a zip-lock bag for a classwork grade. The cards are lettered so the grading so grading is a breeze!
- (2) Print the cards colored paper, laminate them, and have students work them out on a separate sheet of paper, then write their answers on the cards using a dry erase marker.
- (3) Use the activity as a means to group students! Give each student one card. They simplify the expression, and look for the other two people in the room with the same answer.

SAMPLE "TRIPLE":

A {Solve by Graphing}

$$3x - 2y = 4$$
$$x + y = -7$$

M {Solve by Substitution}

$$x + 7y = -37$$
$$4x - 3y = 7$$

V {Solve by Elimination}

$$2x - 8y = 36$$
$$3x + 5y = -31$$