Solve using the provided method:

1. Substitution:

$x = \boxed{3y}$

$2\boxed{x} + 4y = 10$

$2(3y) + 4y = 10$

$6y + 4y = 10$

$10y = 10$

$y = 1$

$X = 3(1)$

$X = 3$

$\boxed{(3, 1)}$

2. Elimination:

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

$x = 2y + 3$
$\underline{-2y \quad -2y}$

$-4(X - 2y = 3)$
$4X - 8y = 12$

$\begin{array}{r} -4X + 8y = -12 \\ + \quad 4X - 8y = 12 \\ \hline 0 = 0 \end{array}$

∞

3. Graphing:

$Y_1 = 2X$

$Y_2 = 5X - 9$

$y = \boxed{2}x$

$5x - y = 9$
$\underline{-5x \quad -5x}$

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

$y = \boxed{5}x - 9$
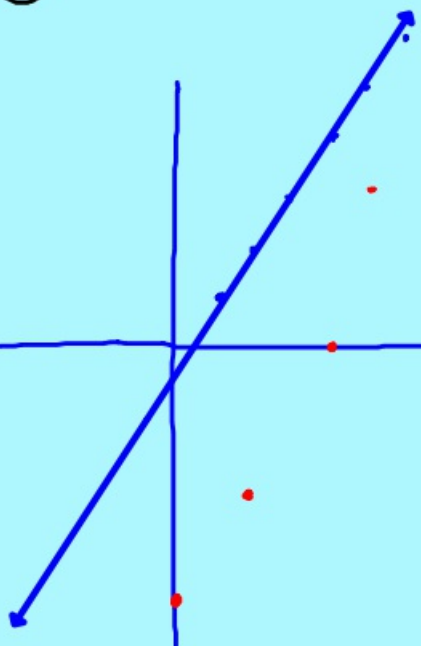
Systems Triples Partner Activity

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)   ∅   (-2, -5)

(8, 0)   (0, -3)   (1, -7)

(9, 2)   ∞