

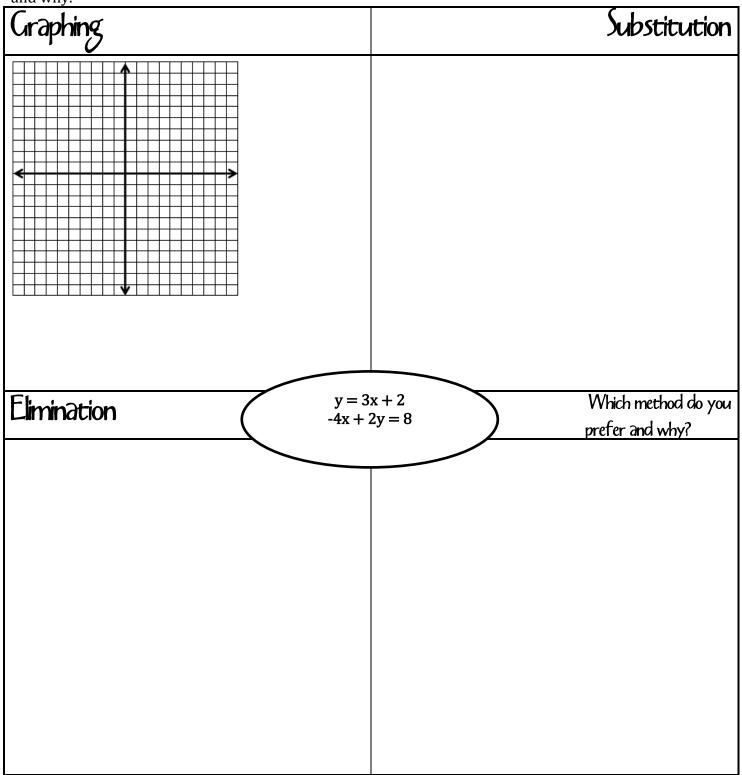
Systems of Equations Graphic Organizer

Name: ____

Date: _____

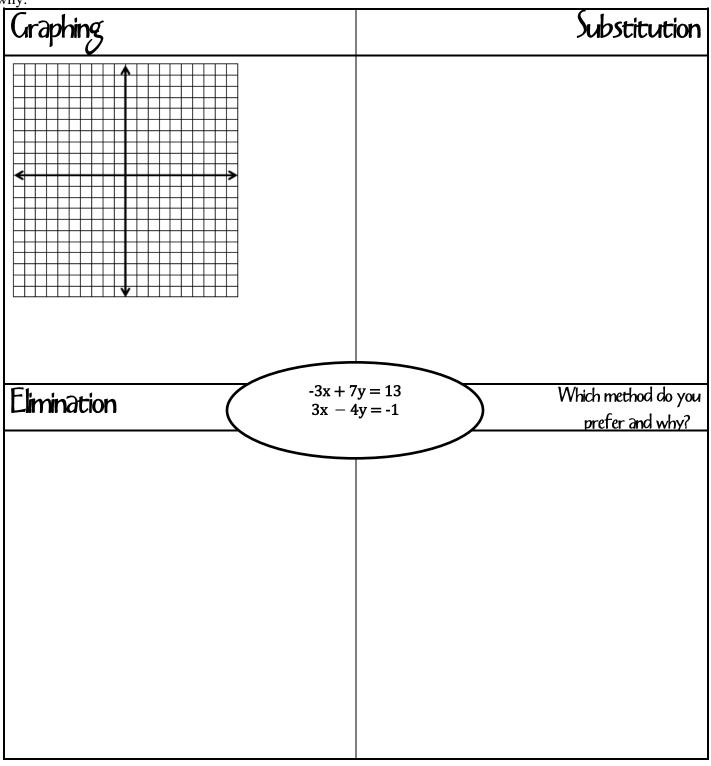
Class Period: _____

Directions: Solve the system of equation using each method. Then determine which method you prefer, and why.



In the space below, write a system of equations that has no solution.

Directions: Solve the system of equation using each method. Then determine which method you prefer, and why.



Suppose you add two linear equations that form a system, and you get the results below. How many solutions does each system have (one solution, no solutions, or infinitely many solutions)? 0 = 0

a)
$$x = 8$$
 b) $0 = 4$ c)

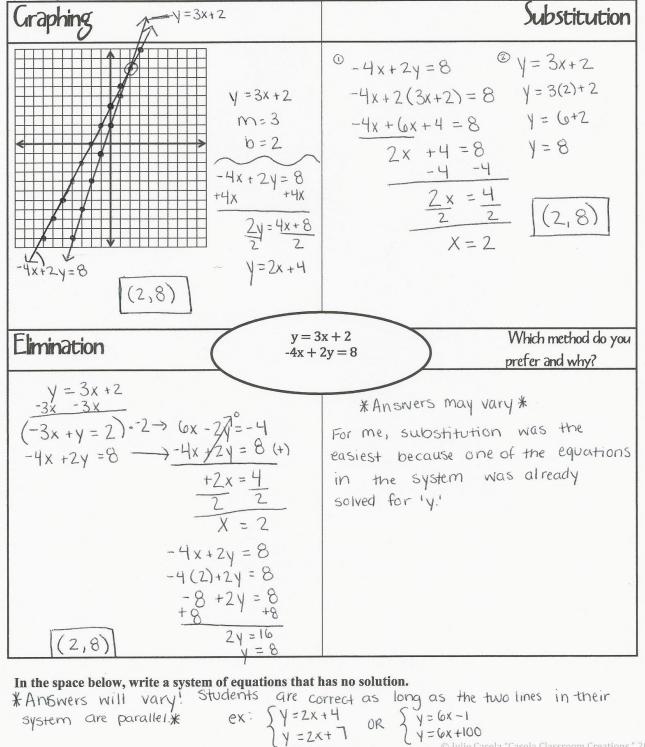
Systems of Equations Graphic Organizer

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Directions: Solve the system of equation using each method. Then determine which method you prefer, and why.



Graphing	Substitution
$x+Ty = 13$ $y = \frac{3x+13}{7}$ $y = \frac{3x+13}{7}$ $y = \frac{3x+13}{7}$	3x - 4y = -1 -3x - 3x -3x - 3x - 1 -4y = -3x - 1 -15 + 7y = 13 -10 - 15 + 7y = 13 -10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
Elimination $3x + 7$ 3x - 4	y = 13 Which method do you
$-3x^{0} + 7y = 13$ $(+)/3x - 4y = -1$ $3y = \frac{12}{3}$ $-3x + 7y = 13$ $-3x + 7(4) = 13$ $-3x + 28 = 13$ $-28 - 28$ $-3x = -15$ $-3x = -15$ $-3x = 5$ $(-5, 4)$	*Answers May Vary* I prefer the elimination method. Of the three methods, elimination was by far the least complicated because the linear equations have a pair of additive inverses (3 & -3) as the coefficients of the 'x' variables. This made solving by elimination simple, and solving by substitution/graphing extremely complex!

Directions: Solve the system of equation using each method. Then determine which method you prefer, and why.

Suppose you add two linear equations that form a system, and you get the results below. How many solutions does each system have (one solution, no solutions, or infinitely many solutions)?



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