Solving Systems of Equations Graphic Organizer! **FREE**

## Systems of Equations Craphic Organizer

Name: $\qquad$ Date: $\qquad$ Class Period: $\qquad$
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.

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

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* Answers will vary! Students are correct as long as the two lines in their system are parallel.*

$$
\text { ex: }\left\{\begin{array} { l } 
{ y = 2 x + 4 } \\
{ y = 2 x + 7 }
\end{array} \text { OR } \left\{\begin{array}{l}
y=6 x-1 \\
y=6 x+100
\end{array}\right.\right.
$$

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


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a) $x=8$
one solution
b) $0=4$
no
Solutions
c) $0=0$
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