

Name _____

**SYSTEMS OF EQUATIONS #2**

PART A: Determine whether each system of equations has *no solution*, *one solution*, or *infinitely many solutions*. Place an x in the correct box for each system of equations. (3 points)

System of Equations	$\begin{cases} y = 4x - 12 \\ y = -12 + 4x \end{cases}$	$\begin{cases} y = -4x - 10 \\ y = 12 - 4x \end{cases}$	$\begin{cases} y = 4x + 6 \\ y = 6 - 3x \end{cases}$
No Solution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
One Solution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infinitely Many Solutions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PART B: Determine whether each system of equations has *no solution*, *one solution*, or *infinitely many solutions*. Place an x in the correct box for each system of equations. (6 points)

System of Equations	$\begin{cases} 4x + y = 10 \\ y = 10 - 4x \end{cases}$	$\begin{cases} y = -4x + 4 \\ 8x + 2y = 12 \end{cases}$	$\begin{cases} y - 5 = 4x \\ 12x + 15 = 3y \end{cases}$
No Solution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
One Solution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infinitely Many Solutions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PART C: Determine whether each system of equations has *no solution*, *one solution*, or *infinitely many solutions*. Place an x in the correct box for each system of equations. (6 points)

System of Equations	$\begin{cases} y = -5(x - 4) \\ 20 - 5x = y \end{cases}$	$\begin{cases} 9y = -9x \\ x = -y \end{cases}$	$\begin{cases} y = -8 \\ -3(x + 8) = y \end{cases}$
No Solution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
One Solution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infinitely Many Solutions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

