Name $\qquad$

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 | $\left\{\begin{array}{l}y=5 x+12 \\ y=5 x+18\end{array}\right.$ | $\left\{\begin{array}{l}y=5 x-10 \\ y=10+x\end{array}\right.$ | $\left\{\begin{array}{l}y=-5 x+6 \\ y=6-5 x\end{array}\right.$ |
| :---: | :---: | :---: | :---: |
| No Solution | $\square$ | $\square$ | $\square$ |
| One Solution | $\square$ | $\square$ | $\square$ |
| Infinitely Many Solutions | $\square$ | $\square$ |  |

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 | $\left\{\begin{array}{c}2 x+y=5 \\ y=5-2 x\end{array}\right.$ | $y=-5 x+4$ <br> $15 x+3 y=12$ | $\left\{\begin{array}{c}y+8=5 x \\ 10 x+16=2 y\end{array}\right.$ |
| :---: | :---: | :---: | :---: |
| No Solution | $\square$ | $\square$ | $\square$ |
| One Solution | $\square$ | $\square$ | $\square$ |
| Infinitely Many Solutions | $\square$ | $\square$ | $\square$ |

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 | $\left\{\begin{array}{c}y=5(x-4) \\ 4 x+12=-y\end{array}\right.$ | $\left\{\begin{array}{c}y=-x \\ 3 x=-3 y\end{array}\right.$ | $\left\{\begin{array}{c}y=-3 \\ -3(x+9)=y\end{array}\right.$ |
| :---: | :---: | :---: | :---: |
| No Solution | $\square$ | $\square$ | $\square$ |
| One Solution | $\square$ | $\square$ | $\square$ |
| Infinitely Many Solutions | $\square$ | $\square$ |  |

