

Name: _____

Solve each system using the substitution method. Write infinitely many solutions or no solution where it applies. MUST SHOW WORK!!

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| 1.) $\begin{cases} y = x \\ y = -x + 2 \end{cases}$ | 2.) $\begin{cases} y = 3x - 10 \\ y = 2x - 5 \end{cases}$ | 3.) $\begin{cases} x = -2y + 1 \\ x = y - 5 \end{cases}$ |
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| 4.) $\begin{cases} y = x - 7 \\ 2x + y = 8 \end{cases}$ | 5.) $\begin{cases} x + 2y = 200 \\ x = y + 500 \end{cases}$ | 6.) $\begin{cases} y = 3x - 6 \\ 3x - y = 6 \end{cases}$ |
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| 7.) $\begin{cases} 3x - 2y = 0 \\ x + y = -5 \end{cases}$ | 8.) $\begin{cases} x - 4y = 1 \\ x - 4y = 20 \end{cases}$ | 9.) $\begin{cases} 2x + 4y = -6 \\ x - 3y = 7 \end{cases}$ |
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10.) Tina has \$220 in her bank account. Cliff has \$100 in his bank account. Starting in July, Tina adds \$25 to her account on the first of each month, while Cliff adds \$35 to his. How many dollars will they have in their accounts when the amounts are the same?