(a)

| $\boldsymbol{x}$ | $\boldsymbol{y}=\mathbf{2 x}-\mathbf{1}$ | $\boldsymbol{y}=\boldsymbol{x}+\mathbf{2}$ |
| :---: | :---: | :---: |
| -5 | -11 | -3 |
| -3 | -7 | -1 |
| 0 | -1 | 2 |
| 3 | 5 | 5 |
| 5 | 9 | 7 |
| 7 | 13 | 9 |

Solution: $\qquad$
(b)

| $\boldsymbol{x}$ | $\boldsymbol{y}=\mathbf{5} \boldsymbol{x}-\mathbf{1}$ | $\boldsymbol{y}=\mathbf{5} \boldsymbol{x}+\mathbf{2}$ |
| :---: | :---: | :---: |
| -3 | -16 | -13 |
| -2 | -11 | -8 |
| -1 | -6 | -3 |
| 0 | -1 | 2 |
| 1 | 4 | 7 |
| 2 | 9 | 12 |

Solution: $\qquad$ No solution

## Solving a System of Equations by Elimination

1. Line up like terms for all equations
2. Look for opposite $\qquad$ coefficients (like $3 x$ and $-3 x$ ) that will eliminate a variable. If you can't find one, you can make one by multiplying $\qquad$ an equation by a number.
3. $A D D$ each set of line terms to eliminate a variable, solve the remaining equation for the other variable.
4. Use your new found value to $\$ 4 b s t i t u t e$ and solve for the other missing variable.
5. Write the solution as an ordered pair $(x, y)$

Coordinate.

Exercise 1 - Solve the following system:


Exercise 2- Solve the following system of equations: $\left\{\begin{array}{l}3 y+x=4 \\ y-2 x=6\end{array}\right.$



