

5-1 Solving Equations using Substitution

Find the x and y value using substitution.

$$x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}} \quad \boxed{1.} \quad \begin{cases} y = -x + 5 \\ x + 2y = -2 \end{cases}$$

$$x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}} \quad \boxed{2.} \quad \begin{cases} x = 6 + y \\ 3x + y = 18 \end{cases}$$

$$x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}} \quad 3. \quad \begin{cases} y = 3x - 1 \\ y + x = 15 \end{cases}$$

$$x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}} \quad 4. \quad \begin{cases} y = 3x - 5 \\ y = 2x - 1 \end{cases}$$

$$x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}} \quad 5. \quad \begin{cases} y = 3x - 5 \\ 4x + 2y = 40 \end{cases}$$

5-2 Solving Equations using Elimination

Find the x and y value using substitution.

$$x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}} \quad \boxed{1.} \quad \begin{cases} 2x + y = 5 \\ x - y = 1 \end{cases}$$

$$x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}} \quad 2. \quad \begin{cases} 3x + 2y = 17 \\ 2x + 5y = 15 \end{cases}$$

$$x = \underline{\hspace{2cm}} \quad y = \underline{\hspace{2cm}} \quad 3. \quad \begin{cases} 2x - y = 8 \\ 3x + y = 12 \end{cases}$$

_____ $\boxed{4.}$ For \$2.10, you can get 3 eggs and a cup of coffee.
For \$2.60, you can get 4 eggs and a cup of coffee.
How much are you paying for the coffee?

_____ $\boxed{5.}$ I plan on taking a vacation on a Cruise Ship this winter.
A 3 day cruise with 8 included meals cost \$600.
A 5 day cruise with 12 meals cost \$780.
How much are they charging for each day of the cruise?