

Part 1 → Using ADDITION, solve the system by elimination.

$$\begin{array}{r}
 1. \quad -3x - y = 8 \\
 \quad \quad 7x + y = -12 \\
 \hline
 -3x - y = 8 \\
 + 7x + y = -12 \\
 \hline
 4x + 0 = -4 \\
 \frac{4x}{4} = \frac{-4}{4} \\
 x = -1
 \end{array}$$

$$(-1, -5)$$

Part 2 → Using SUBTRACTION, solve the system by elimination.

$$\begin{array}{r}
 2. \quad x + y = 1 \\
 \quad \quad -2x + y = 4 \\
 \hline
 x + y = 1 \\
 -2x + y = 4 \\
 \hline
 3x + 0 = -3 \\
 \frac{3x}{3} = \frac{-3}{3} \\
 x = -1
 \end{array}$$

$$(-1, 2)$$

Part 3 → ARRANGE like terms and then solve the system by elimination.

$$\begin{array}{r}
 3. \quad -8y + 6x = 36 \\
 \quad \quad 6x - y = 15 \\
 \hline
 -8y + 6x = 36 \\
 -6x - y = 15 \\
 \hline
 -7y = 21 \\
 \frac{-7y}{-7} = \frac{21}{-7} \\
 y = -3
 \end{array}$$

$$(2, -3)$$

Part 4 → Continue Solving by using elimination.

$$\begin{array}{r}
 4. \quad 8x - \frac{1}{2}y = -38 \\
 \quad \quad -\frac{1}{2}y + \frac{1}{4}x = -7 \\
 \hline
 8x - \frac{1}{2}y = -38 \\
 -\frac{1}{2}y + \frac{1}{4}x = -7 \\
 \hline
 7\frac{3}{4}x = -31 \\
 \frac{7.75x}{7.75} = \frac{-31}{7.75} \\
 x = -4
 \end{array}$$