# SIMULTANEOUS LINEAR EQUATION

**Example:**

**Problem** $\begin{cases} 3x - 2y = 29 \ldots (1) \\ 4x + y = 24 \ldots . (2) \end{cases}$

***Solving by Elimination***

▷ ***eliminate the variable x***

$$\begin{array}{l|l|l} 3x - 2y = 29 & \times 4 & 12x - 8y = 116 \\ 4x + y = 24 & \times \boxed{\ldots} & \boxed{\ldots}x + \boxed{\ldots}y = \boxed{\ldots} \quad - \\ \hline & & \boxed{\ldots}y = \boxed{\ldots} \\ & & y = \boxed{\ldots} \end{array}$$

▷ ***eliminate the variable y***

$$\begin{array}{l|l|l} 3x - 2y = 29 & \times 1 & 3x - 2y = 29 \\ 4x + y = 24 & \times \boxed{\ldots} & \boxed{\ldots}x + \boxed{\ldots}y = \boxed{\ldots} \quad + \\ \hline & & \boxed{\ldots}x = \boxed{\ldots} \\ & & x = \boxed{\ldots} \end{array}$$

***Solution =*** $(\boxed{\ldots\ldots}, \boxed{\ldots\ldots})$

LIVEWORKSHEETS