

SIMULTANEOUS LINEAR EQUATION

Example:

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

Solving by Elimination

➤ *eliminate the variable x*

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

➤ *eliminate the variable y*

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

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