

Simultaneous Equations
Elimination Method
Grade 11

- i. Number the equations
- ii. **Eliminate!** Remember:
 - a. If the **signs** are the **same**, **SUBTRACT** to eliminate
 - b. If the **signs** are **different**, **ADD** to eliminate
- iii. Solve.
- iv. Substitute your answer into equation 1 or 2 to solve for the next variable.

Solve the following pairs of simultaneous equations using the steps above.

$$\begin{aligned}12x + 5y &= 65 \\ 9x + 5y &= 50\end{aligned}$$

$$\begin{aligned}9x + 2y &= 48 \\ x - 2y &= 2\end{aligned}$$

$x =$ _____ $y =$ _____

$x =$ _____ $y =$ _____