

SIMULTANEOUS LINEAR EQUATION

Name :

Class :

Fill in the blanks.

(SUBSTITUTION METHOD)

1.

$$3x + 4y = 12 \text{ -----} \rightarrow (1)$$

$$x + 2y = 8 \text{ -----} \rightarrow (2)$$

from (2),

$$x + 2y = 8$$

$$x = 8 - \text{-----} \rightarrow (3)$$

Substitute (3) to (1)

$$3(\text{-----}) + 4y = 12$$

$$- \text{-----} + 4y = 12$$

$$-2y = 12 - \text{-----}$$

$$y = \frac{\text{-----}}{-2}$$

$$y = \text{-----}$$

from (3)

$$x = 8 - 2(\text{-----})$$

$$x = \text{-----}$$

2.

$$2x + y = 3 \text{ -----} \rightarrow (1)$$

$$5x + 4y = 6 \text{ -----} \rightarrow (2)$$

from (1),

$$2x + y = 3$$

$$y = 3 - \text{ -----} \rightarrow (3)$$

Substitute (3) to (2)

$$5x + 4(\quad) = 6$$

$$5x + \quad - \quad = 6$$

$$5x - \quad = 6 - \quad$$

$$-3x =$$

$$x =$$

from (3)

$$y = 3 - 2(\quad)$$

$$y =$$

(ELIMINATION METHOD)

3.

$$x + 7y = 5 \text{ -----} \rightarrow (1)$$

$$x + 2y = 10 \text{ -----} \rightarrow (2)$$

(1) - (2),

$$7y - \quad = 5 -$$

$$5y =$$

$$y =$$

replace $y =$ to (1)

$$x + 7(\quad) = 5$$

$$x = 5 +$$

$$x =$$

4.

$$3x - 2y = 2 \text{ -----} \rightarrow (1)$$

$$x + 2y = 6 \text{ -----} \rightarrow (2)$$

(1) + (2),

$$3x + \quad = 2 +$$

$$= 8$$

$$x =$$

replace $x =$ to (2)

$$+ 2y = 6$$

$$2y = 6 -$$

$$y =$$