

Your Name:

Class :

## MODULE 7 – LESSON 2

### SUBSTITUTION

#### Key Concept • Substitution Method

- |               |   |
|---------------|---|
| <b>Step 1</b> | When necessary, solve at least one equation for one variable.   |
| <b>Step 2</b> | Substitute the resulting expression from Step 1 into the other equation to replace the variable. Then solve the equation.       |
| <b>Step 3</b> | Substitute the value from Step 2 into either equation, and solve for the other variable. Write the solution as an ordered pair. |

#### PRACTICE

Use substitution to solve the system of equations.

$$5x + 3y = 5$$

$$x + 2y = -13$$

Step 1 : solve one equation for one variable

$$x + 2y = -13$$

$$x =$$

Step 2 : substitute the expression from step 1 in the other equation

$$5x + 3y = 5$$

$$5(\quad) + 3y = 5$$

$$y =$$

Step 3 : substitute the value from step 2 in the first equation

$$x =$$

$$x =$$