

### 3.1 WORKSHEET ON THE APPLICATIONS OF SYSTEM OF LINEAR EQUATIONS

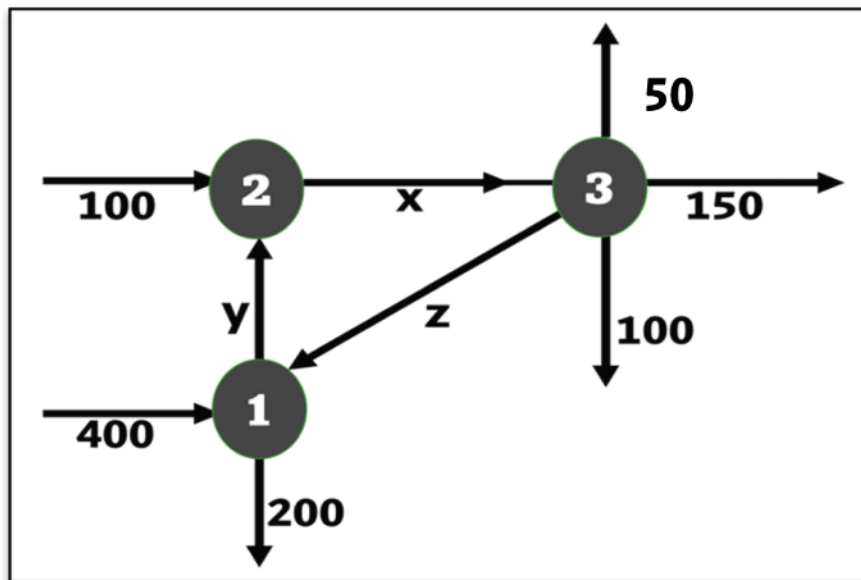
NAME: \_\_\_\_\_

SECTION: \_\_\_\_\_

#### Problem Solving:

Use any method (Cramer's Rule, Gaussian Elimination, or Gauss-Jordan Elimination) to solve the following problems. Show the complete solutions.

1. Isko Manileni Dudirty has 55 bills in his wallet, consisting of php20 bills and php50 bills. The total amount of the bills is php2,030. How many of each kind of bill are there in his wallet? (18 pts)
2. The figure below shows the flow of traffic (in vehicles per hour) through a network of streets.



- a. Solve for the system of flow of traffic. (22 pts)
- b. Give three possible solutions (if there is any) for the unknown variables. (10 pts)