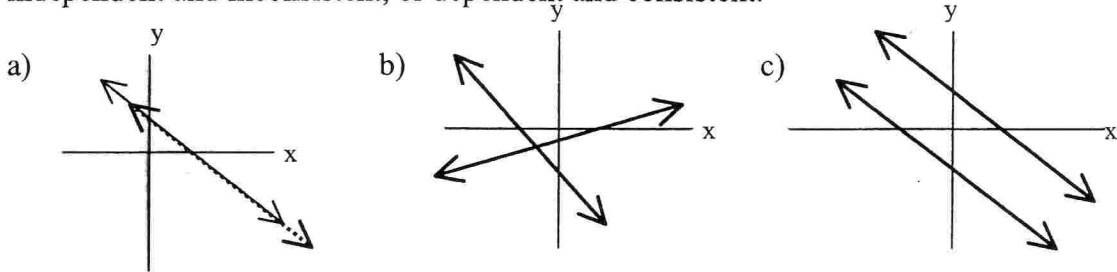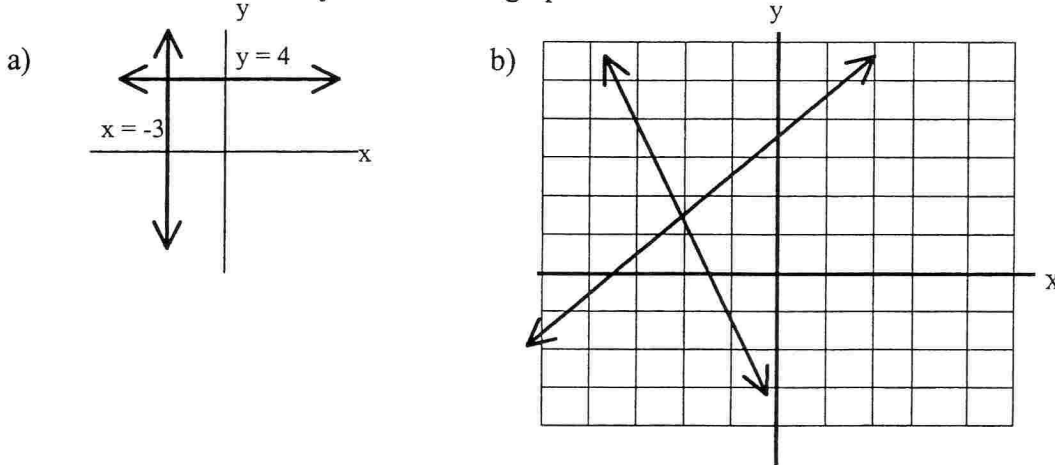1. Classify the following systems as one of the following--- independent and consistent, independent and inconsistent, or dependent and consistent.

a)

b)

c)

2. What is the solution to the systems whose graphs are shown below?

a)

b)

3. Solve the following systems:

a) $\begin{cases} 2x + 3y = 36 \\ x - 2y = -10 \end{cases}$

b) $\begin{cases} 4x - 6y = 12 \\ 2x - 3y = 9 \end{cases}$

c) $\begin{cases} x + \dfrac{3}{2}y = 2 \\ y = \dfrac{x}{4} - \dfrac{13}{4} \end{cases}$

4. Solve the following by using a system of equations. Lomasi's two student loans totaled $12,000. One of her loans was at 6% simple interest and the other at 9%. After one year, Lomasi owed $855 in interest. What was the amount of each loan?

5. Solve the following system: $\begin{cases} x + y + z = 433 \\ 2x + 3y - z = 1047 \\ 3x - 4y + 2z = 472 \end{cases}$

6. Fargo's Pizza Co. sells three kinds of large pizzas---pepperoni, beef, and vegetable. Alfred went to Fargo's and bought one kind of each pizza and his bill was $27.00. Alicia went to Fargo's and bought 2 pepperoni pizzas, 1 beef pizza, and 3 vegetable pizzas and her bill was $52.50. Juan went to Fargo's and bought 1 pepperoni pizza, 3 beef pizzas, and 2 vegetable pizzas and his bill was $52.50. Assuming that they all bought large pizzas, use a system of equations to find the cost of each kind of pizza.