Name _____

Per _____ Date _____

Writing Equations and Graphing

1. The Science Club started out with $20 and has earned $10 per week at bake sales. The Math Club has saved $5 per week after starting out with $50 at the beginning of the year.

a) Write an equation for each club. Let **x** represent the number of weeks and **y** represent the amount of money the club has each week.

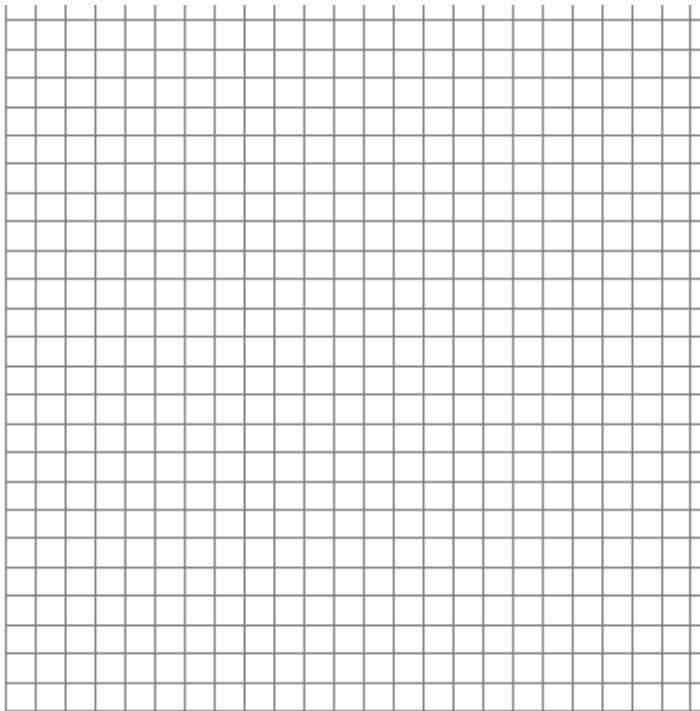**Science Club**

Starting amount _____

Increase each week _____

Equation _____

Math Club

Starting amount _____

Increase each week _____

Equation _____

b) Graph the equation. Label the x and y axes and write the increments for both axes.

c) When do the clubs have the same balance? _____
What is the balance? _____

d) Write a sentence combining the answers to c)

_____

_____.

Solve the system of equations using substitution. Then check your solution by graphing each line.

y = x − 2   y = −2x + 7

solution_____