Systems with Word Problems and Tables

Name _____ Per. ___

Complete each input-output table using the given equations. Then find the solution by seeing where the equations match up.

1.

x	y = 4x – 3	y = -2x + 15
-1		
0		
1		
2		
3		
4		

2.

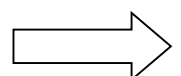| x	y = -3x + 1	y = 2 – 2x
-4		
-3		
-2		
-1		
0		
1		

SOLUTION: _____

SOLUTION: _____

3. Mikayla put $212 in a savings account at the beginning of the year. At the end of each month, she withdrew $12 from her account. Matthew put $30 in his savings account at the beginning of the year. At the end of each month, he deposited $14 in his account.

a. Write an equation to represent the amount in Mikayla's savings account.

b. Write an equation to represent the amount in Matthew's savings account.

c. In the space below, make an input-output table that shows the amount in each account for the first 8 months.

	0 months	1st month	2nd month	3rd month	4th month	5th month	6th month	7th month	8th month
Mikayla									
Matthew									

**d.** When will Mikayla and Matthew have the same amount in their accounts?

4. Latanya and George are saving up money to buy new bicycles. Latanya opened a savings account with $50 and is going to save $30 per week. George started a savings account with $75 and will save $25 per week.

  a. Write an equation to represent Latanya's savings.

  b. Write an equation to represent George's savings.

  b. Make an input-output table to show the amount in each kids' savings account.

  c.

	0 weeks	1 week	2 weeks	3 weeks	4 weeks	5 weeks	6 weeks
Latanya							
George							

  d. Using the equations you wrote or the points in the table, draw a line to represent Latanya's savings and a line to represent George's savings. Please use a different color for each student.
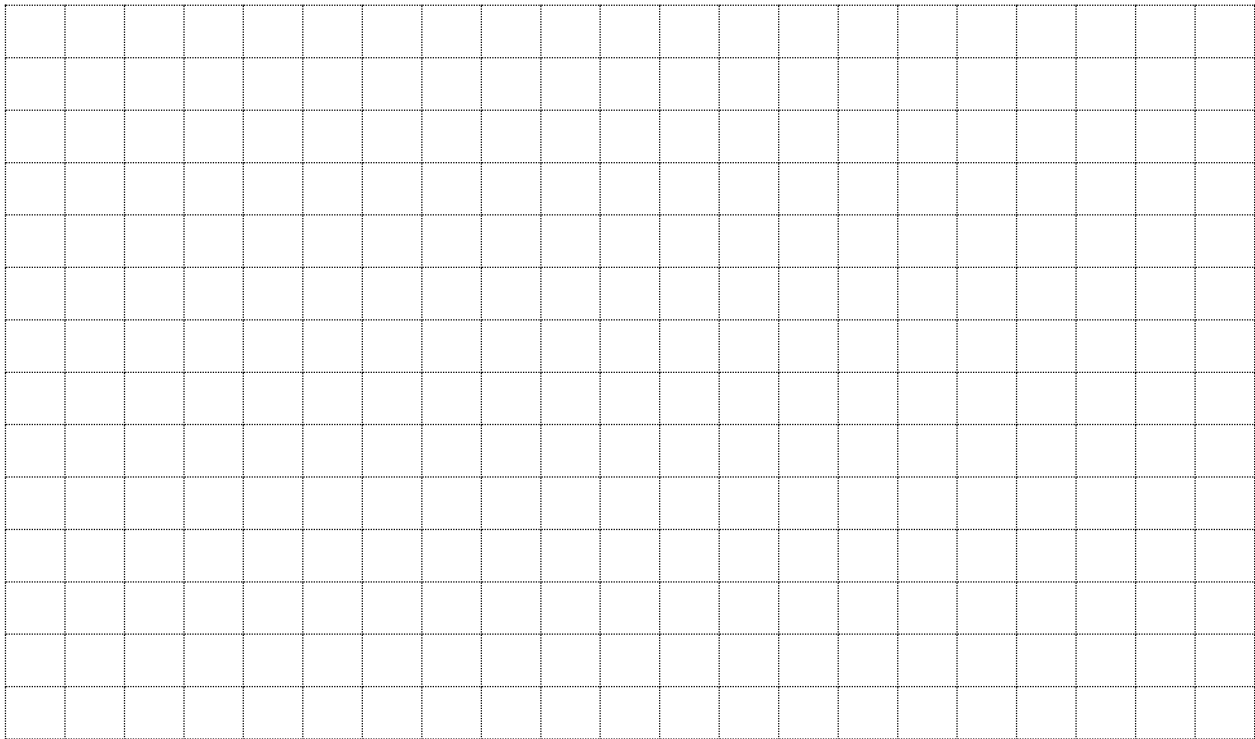
  e. When will Latanya and George have the same amount of money in their savings accounts?

  f. You solved this problem by using a table and by using a graph. Do your answers match? Can you think of another way to solve this problem?