Moving Straight Ahead Investigation 1.3

Name_____ Period: ___

The three students from Ms. Chang's class are ready to start earning money for the class walkathon! Each student found sponsors who are willing to pledge the following amounts:

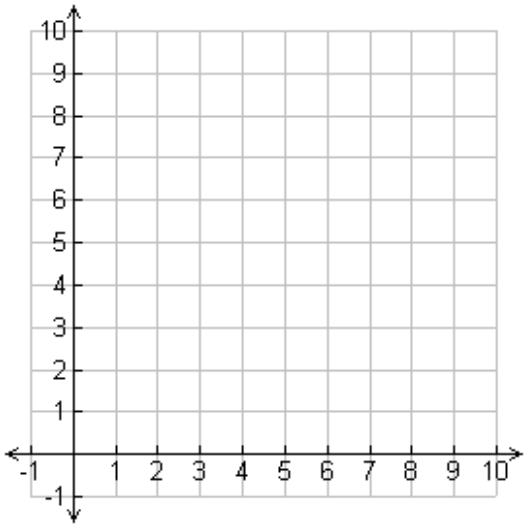
- ***Leanne's sponsors will pay $10 regardless of how far she walks***
- ***Gilberto's sponsors will pay $2 per kilometer (km)***
- ***Alana's sponsors will make a $5 donation, plus 50 cents per kilometer (km)***

Independent variable = _____ Dependent Variable = _____

A. Complete data tables for each student's pledge plan showing the amount of money each of sponsor would owe for distances from 0 km to 6 km. Start with zero as your first value.

Leanne **Gilberto** **Alana**

B. Graph the three pledge plans on the same graph below for all three students. Use a different color for each student's data line. Be sure to label your x and y axis!



C. Write an equation that gives the relationship between the amount *a* of money owed and the distance *d* walked for each student.

Leanne_____ Gilberto_____ Alana_____

D. Suppose each student walks 8 km in the walkathon. How much money does each sponsor owe?

E. What pattern(s) of change do you notice in the data tables for each pledge plan? Where do you see these same patterns in the graph? In the equation?