Name $\qquad$ Date $\qquad$ Period $\qquad$

## Math Homework 6

1. Graph the following tables, and identify if the two quantities are proportional to each other on the graph. Explain why or why not. Be sure to refer to the graph in your explanation.
a.

| $x$ | $y$ |
| :---: | :---: |
| 2 | 1 |
| 4 | 2 |
| 6 | 3 |
| 8 | 4 |


b.

| $x$ | 1 | 3 | 5 | 7 |
| :--- | :--- | :--- | :--- | :--- |
| $y$ | 8 | 6 | 4 | 2 |


2. Sally's aunt put money in a savings account for her on the day Sally was born. The savings account pays interest for keeping her money in the bank. The ratios below represent the number of years to the amount of money in the savings account.

- After one year, the total in Sally's account was $\$ 312$.
- After three years, the total was \$340.
- After six years, the total was $\$ 380$.
- After nine years, the total was $\$ 430$.
- After 12 years, the total was $\$ 480$.

Using the information above, fill in the table and the graph. Then, explain whether the amount of money accumulated and the time elapsed are proportional to each other. Use your table and your graph to support your reasoning.


