

Algebra2/Trig Rate of Change Practice Problems

- 1 In 1998, Linda purchased a house for \$144,000. In 2009, the house is worth \$245,000. Find the average annual rate of change in dollars per year in the value of the house. Round your answer to the nearest dollar.**

Let x = year

Let y = amount

2. Kevin's savings account balance changed from \$1140 in January to \$1450 in April. Find the average rate of change per month. Round your answer to the nearest dollar.

- 3 The following graph represents Karen's Marathon.



1. What is the rate of change for interval A?
2. Explain what you think may have happened during interval C.
3. If the rate of change for interval A had remained constant throughout the whole marathon, how long would it have taken Karen to finish the marathon? (There are 26 miles in a marathon.)

- 4 The table shows the balance of a bank account on different days of the month. Find the rate of change during each time interval. During which time interval did the balance decrease at the greatest rate?

Day	1	6	16	22	30
Balance (\$)	550	285	210	210	175