USES Objective E

In 1–5, use the chart showing the percent of households that had a computer.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent of Households</td>
<td>15.0</td>
<td>22.8</td>
<td>36.6</td>
<td>56.3</td>
</tr>
</tbody>
</table>

1. Make a line graph for the number of households that had a computer from 1989 to 2001.

2. In which 4-year time period is the increase in the percent of households that had a computer the greatest?

3. What is the rate of change of the percent of households that had a computer from 1993 to 2001?

4. Which is steeper, the segment joining (1989, 15.0) to (1993, 22.8) or the segment joining (1993, 22.8) to (1997, 36.6)?

In 5–8, use the chart showing the average cost per compact disc.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Cost</td>
<td>$13.07</td>
<td>$12.78</td>
<td>$12.75</td>
<td>$13.48</td>
<td>$14.02</td>
</tr>
</tbody>
</table>

5. Make a line graph for the average cost per compact disc.

6. Identify all two-year time periods where the rate of change is negative.

7. What does a negative rate of change represent in this situation?
8. Which two-year time period had the greatest rate of change in the average cost per compact disc?

In 9–15, refer to the graph below of the total amount of rain that fell in Lake Zurich, Illinois, for the first 20 days in September, 2006.

9. In which 1-day time period did it rain the most?

10. Is the rate of change from day 16 to day 19 positive, negative, or zero?

11. What is the rate of change from day 19 to day 20?

12. Explain why the rate of change in total rainfall between any two days would not be negative.

13. What was the average rainfall per day for the first 20 days in September?

14. Which is steeper, the segment joining (3, 0.1) and (4, 0.5) or the segment joining (9, 0.7) and (10, 1.1)?

15. Between which days was there no change in rainfall?