Answer all of the following questions in the space provided. Show all work as partial credit may be given. Answers without justification, even if they are correct, will earn no credit.

1. 

<table>
<thead>
<tr>
<th>$x$</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>$f(x)$</td>
<td>4</td>
<td>3.2</td>
<td>2.56</td>
<td>2.05</td>
<td>1.64</td>
</tr>
</tbody>
</table>

(a) (3 pts.) Use the table of values above to estimate $f'(x)$ at $x = 0, 1, 2, 3$.

(b) (3 pts.) From the data given, do you think the function is increasing or decreasing on the interval $[0, 4]$? Why?

(c) (2 pts.) From the data given, do you think the rate of change of the function is increasing or decreasing on the interval $[0, 4]$?

2. (2 pts. each) A diabetic has just taken a shot of insulin in order to lower his blood glucose level. Let $G$ be the blood glucose level in milligrams per deciliter (md/dl), and let $t$ be the time in seconds since the shot was taken.

   (a) Describe in one sentence the physical meaning of $G'(t)$.

   (b) What are the units of $G'(t)$?