3. [9 points] Let $t$ be the number of hours you spent studying for a midterm, which is worth 100 points. Let $S$ be your score in the midterm, and let $G$ be the letter grade you get. The graph of the function $f$ so that $S = f(t)$ is drawn below.

![Graph of function $f(t)$]

Also, the function $h$ so that $G = h(S)$ is given by the table below.

<table>
<thead>
<tr>
<th>$S$</th>
<th>0 - 35</th>
<th>36 - 50</th>
<th>51 - 74</th>
<th>75 - 86</th>
<th>87 - 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>$G = h(S)$</td>
<td>E</td>
<td>D</td>
<td>C</td>
<td>B</td>
<td>A</td>
</tr>
</tbody>
</table>

For example, if you get a score between 0 and 35, you get an E grade.

a. [5 points] Find a formula for the function $f$ written as a piecewise defined function.

$$f(t) = \begin{cases} \text{ } & \text{ } \\ \text{ } & \text{ } \\ \text{ } & \text{ } \end{cases}$$

b. [2 points] What is the minimum amount of time you need to spend studying to get an A in the midterm? Include units and your answer must be exact or accurate up to 2 decimal places.

Answer: 

c. [2 points] Give a practical interpretation of the statement $h(f(6)) = C$. Use complete sentences in your answer.