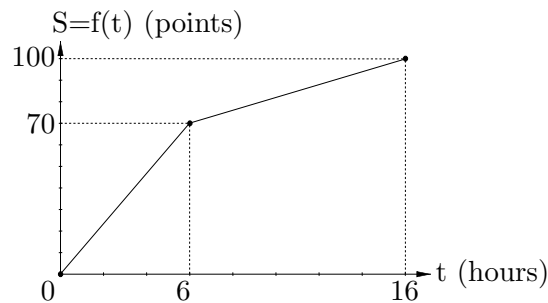


3. [9 points] Let t be the number of hours you spent studying for a midterm, which is worth 100 points. Let S be your score in the midterm, and let G be the letter grade you get. The graph of the function f so that $S = f(t)$ is drawn below.



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

| | | | | | |
|------------|--------|---------|---------|---------|----------|
| S | 0 – 35 | 36 – 50 | 51 – 74 | 75 – 86 | 87 – 100 |
| $G = h(S)$ | E | D | C | B | A |

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.

$$f(t) = \left\{ \begin{array}{ll} \underline{\hspace{2cm}} & \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \underline{\hspace{2cm}} \end{array} \right.$$

- 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.