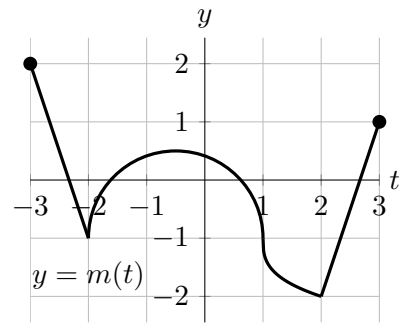


10. [8 points]

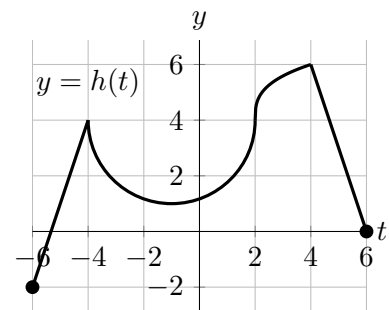
The entire graph of a function m is shown on the right. Use this graph to answer the questions in parts **a.** and **b.** below.



Note that the scales on the axes of the graphs on this page are not all the same.

a. [4 points]

The graph of a function h is shown on the right. It is a transformation of the graph of m . Write a formula for $h(t)$ in terms of m and t .



Answer: $h(t) = \underline{\hspace{2cm} -2m(\frac{1}{2}t) + 2 \hspace{2cm}}$

b. [4 points] Determine which one of the graphs A–F below is the graph of $y = -m(-2t + 1) - 3$. Then find the values of \mathbf{p} and \mathbf{q} shown on the graph you chose.

To receive credit, you must circle an option (A–F) next to the word “Answer” below and write your values of \mathbf{p} and \mathbf{q} in the spaces provided.

<p style="text-align: center;">A.</p>	<p style="text-align: center;">B.</p>	<p style="text-align: center;">C.</p>
<p style="text-align: center;">D.</p>	<p style="text-align: center;">E.</p>	<p style="text-align: center;">F.</p>

Remember: to receive credit on this problem, you must circle one option below and write your values of \mathbf{p} and \mathbf{q} in the spaces provided.

Answer: A B C D E F

$\mathbf{p} = \underline{\hspace{2cm} -2 \hspace{2cm}}$ and $\mathbf{q} = \underline{\hspace{2cm} -4 \hspace{2cm}}$