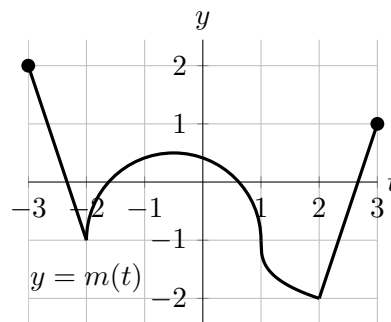


10. [8 points]

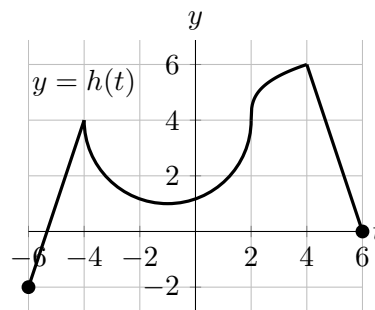
The entire graph of a function  $m$  is shown on the right. Use this graph to answer the questions in parts a. and b. below.



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

a. [4 points]

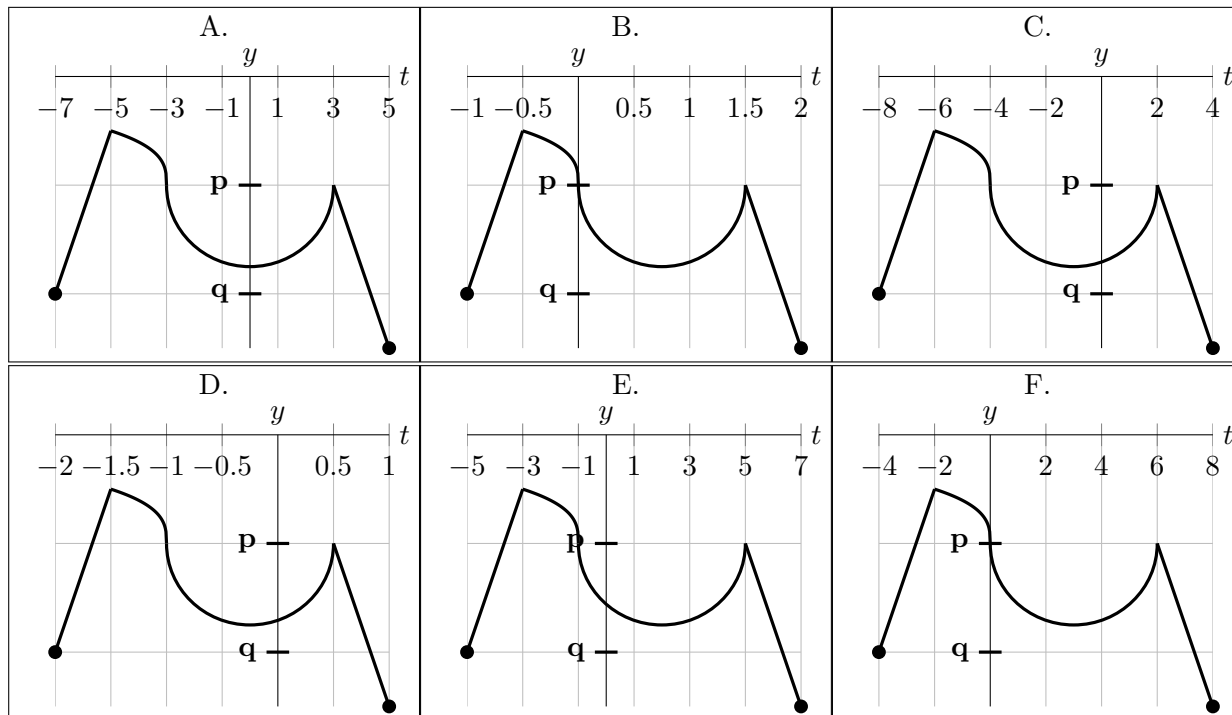
The graph of a function  $h$  is shown on the right. It is a transformation of the graph of  $m$ . Write a formula for  $h(t)$  in terms of  $m$  and  $t$ .



**Answer:**  $h(t) =$  \_\_\_\_\_

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.



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.

$\mathbf{p} =$  \_\_\_\_\_ and  $\mathbf{q} =$  \_\_\_\_\_