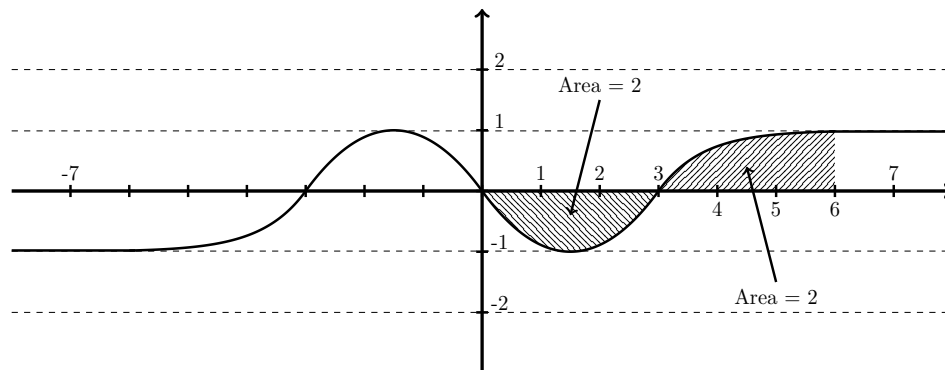


2. [17 points]

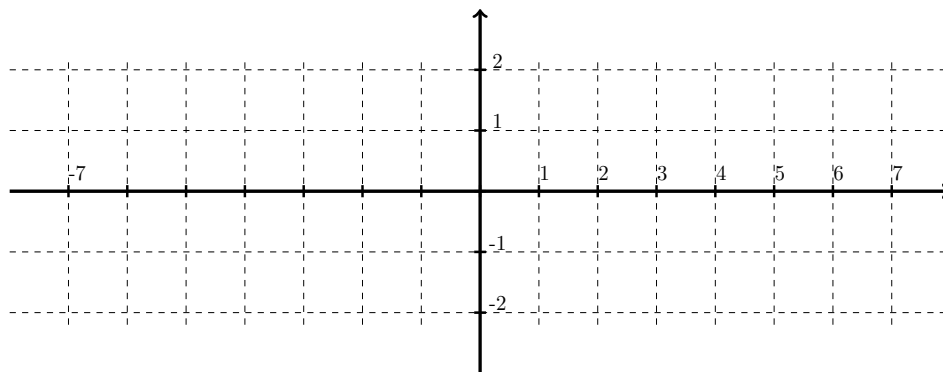
The graph of an odd function f is shown below.



- a. [7 points] Let $F(x)$ be the antiderivative of $f(x)$ with the property that $F(3) = -2$. Use the graph of $f(x)$ to compute the following values of $F(x)$.

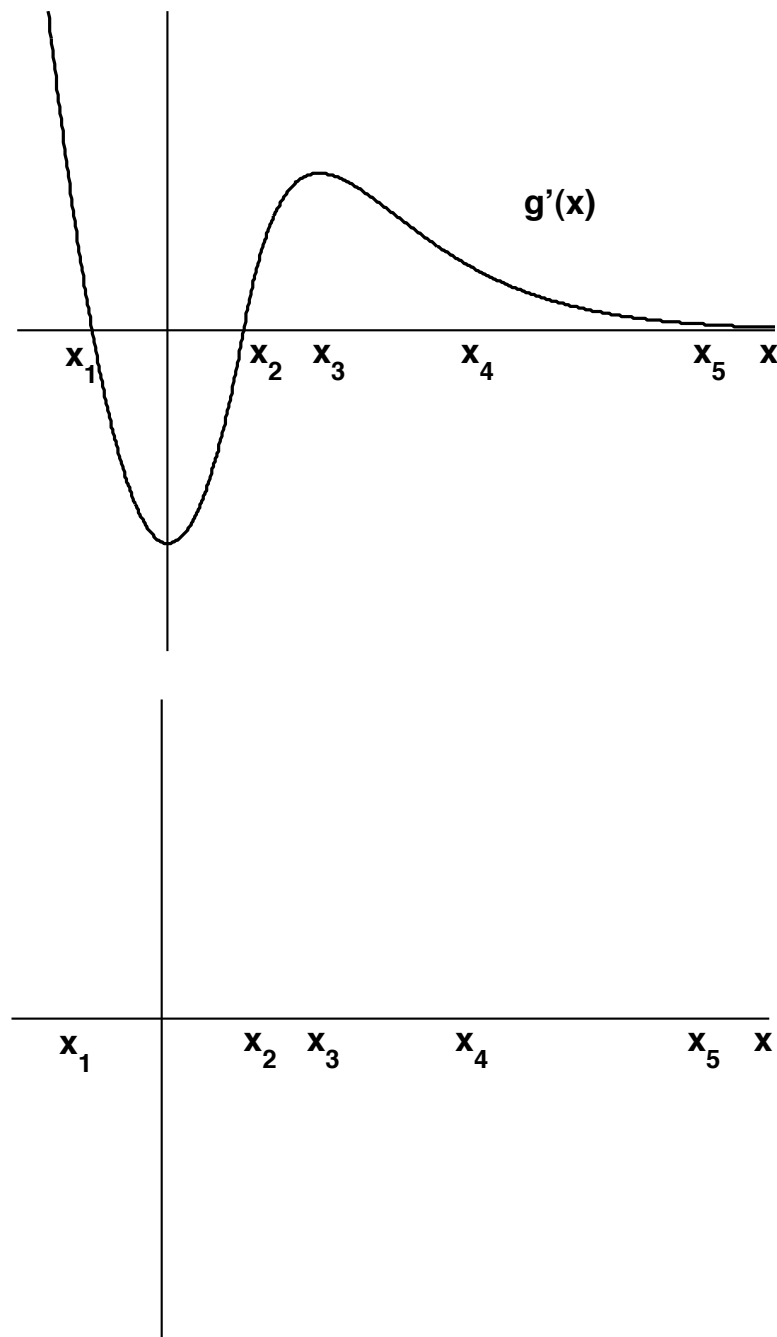
x	-7	-6	-3	0	3	6	7
$F(x)$							

- b. [8 points] Sketch the graph of $F(x)$ from $x = -7$ to $x = 7$. Label all points of inflection.

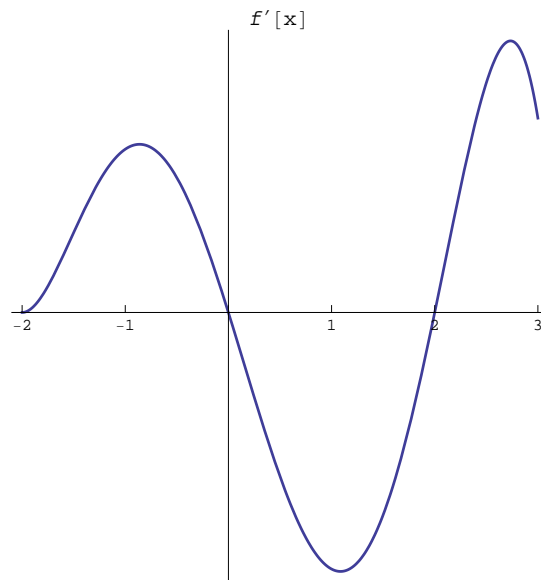


- c. [2 points] Calculate the average value of f between $x = -3$ and $x = 7$.

7. [7 points] Given is a graph of $g'(x)$. Sketch a graph of $g(x)$ on the provided axes given that $g(0) = 0$ and $g(x)$ is continuous. On your graph, label any local maxima, minima, and points of inflection.

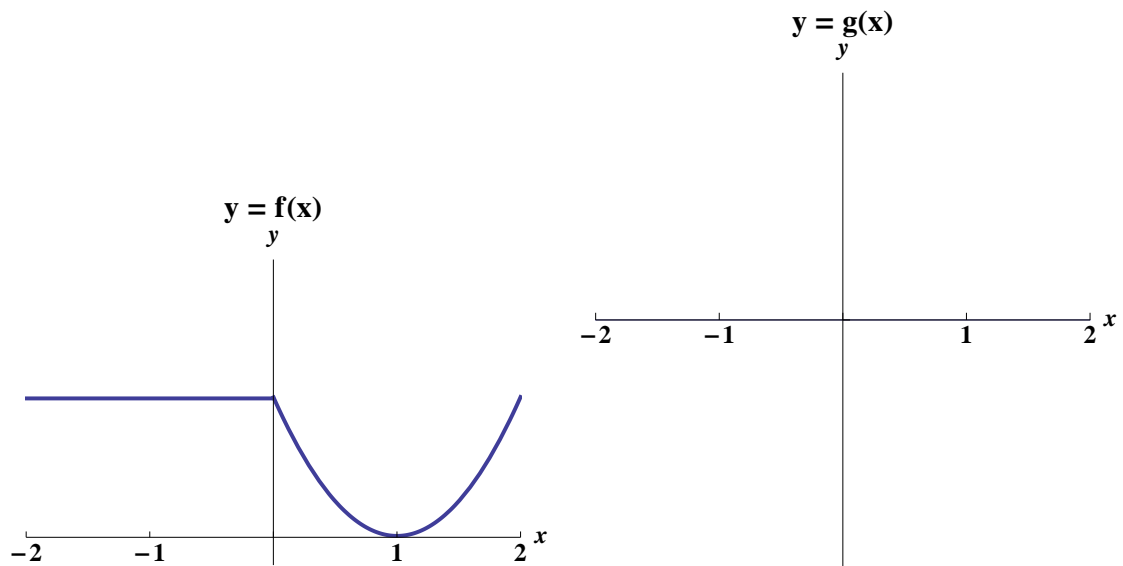


2. [11 points] Given the graph of $f'(x)$. Sketch a graph of $f(x)$ on the provided axes given that $f(1) = 0$. On your graph, label any local maxima, minima, and points of inflection. Make sure that the concavity of the graph of $f(x)$ is visible in your graph.



4. [10 points] Given the graph of $f(x)$, sketch the graph of $g(x)$. Make sure your graph accurately shows the intervals where $g(x)$ is increasing or decreasing and its concavity.

a. [5 points] Let $g'(x) = f(x)$ with $g(0) = 0$.



b. [5 points] Let $g(x) = \int_1^x f(t) dt$.

