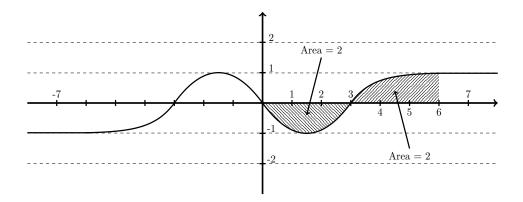
## **2**. [17 points]

The graph of an odd function f is shown below.

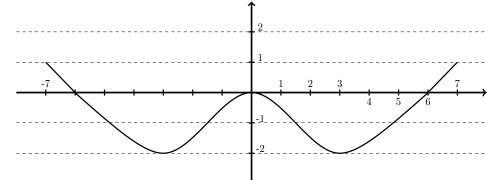


**a.** [7 points] Let F(x) be the antiderivative of f(x) with the property that F(3) = -2. Use the graph of f(x) to compute the following values of F(x).

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

Solution:	x	-7	-6	-3	0	3	6	7
	F(x)	1	0	-2	0	-2	0	1

**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. Solution:  $\frac{1}{7-(-3)} \int_{-3}^{7} f(x) dx = \frac{3}{10}$