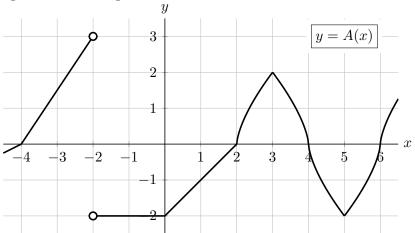
3. [10 points] A portion of the graph of a function A(x) is shown below. Note that the part of the graph on the interval [4,6] can be obtained from the part of the graph on the interval [2,4] by shifting it two units to the right and reflecting it over the x-axis.



Let B(x) be the continuous antiderivative of A(x) passing through the point (-1,1).

a. [5 points] Use the graph above to complete the table below with the **exact** values of B(x).

x	-4	-2	-1	0	2	6
B(x)	0	3	1	-1	-3	-3

- **b.** [5 points] On the axes below, sketch a detailed graph of y = B(x) for $-4 \le x \le 6$. Be sure that you pay close attention to each of the following:
 - where B(x) is and is not differentiable,
 - the values of B(x) you found in the table above and at local extrema of B,
 - where B(x) is increasing/decreasing/constant, and the concavity of B(x).

