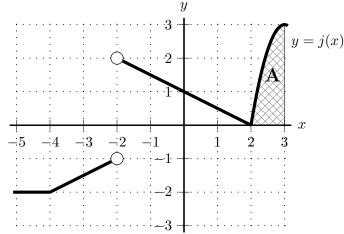
7. [10 points] The graph of a function j(x) is shown below. The shaded region A has area 2.

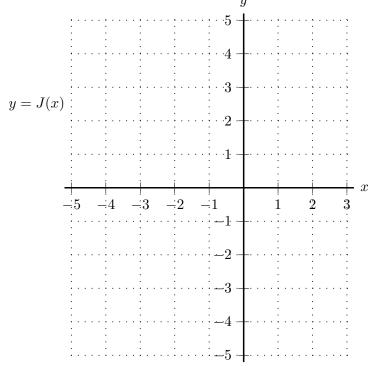


On the axes provided below, sketch a well-labeled graph of an antiderivative of J(x) of j(x)that is defined and continuous on the interval $-5 \le x \le 3$ and that satisfies J(0) = 1. Be sure that you pay close attention to each of the following:

• the value of J(x) at each of its critical points and inflection points

(Be sure to also write this data in the answer blanks at the bottom of the page.)

- where J is/is not differentiable
- where J is increasing/decreasing/constant
- the concavity of the graph of y = J(x)



On the answer blanks below, write both the x- and y-coordinates of all critical points and all inflection points of J(x). Write NONE if J(x) has no such points.

Both coordinates of all critical points: ____

Both coordinates of all inflection points: .