5. [10 points] The graph of a piecewise linear function f(x) is shown below. On the axes provided, sketch a well-labeled graph of an antiderivative F(x) of f(x) satisfying F(0) = -1. Be sure to make the concavity of F clear and to label the y-coordinates of the local minima and maxima of F and the y-coordinates of F at x = 5 and x = -5.

