1. (5 points) Let \( t \) represent the number of hours since 5:00 AM on January 1, 2002. Let \( y = f(t) \) represent the thickness, in inches, of a layer of ice on Lake Mendota at time \( t \).

(a) Interpret the statements \( f(7) = 10 \) and \( f'(7) = -0.5 \) in terms of ice, thickness, and time. Your final answer should be in the form of one or more English sentences which can be easily understood by a person who knows very little math. You should especially avoid calculus terms such as derivative, rate of change, function, slope, tangent line, etc.

(b) Use the information given in part (a) to estimate the thickness of the ice at 2:00 PM on January 1, 2002.

(c) Use the information given in part (a) to estimate the thickness of the ice at 11:00 AM on January 1, 2002.
2. (5 points) The graph of \( f(x) \) is shown below.

Circle the graph of \( f'(x) \), given that it is one of the 6 choices below.