2. (11 points) The graph in the figure below is the graph of \( f' \) (i.e., the derivative of the function \( f \)).

(a) For what value(s) of \( x \), if any, does \( f \) have a critical point?

(b) For what value(s) of \( x \), if any, does \( f \) have a local maximum?

(c) For what value(s) of \( x \), if any, does \( f \) have a local minimum?

(d) For what value(s) of \( x \), if any, does \( f \) have an inflection point?

(e) Over what intervals, if any, is \( f \) increasing?

(f) Over what intervals, if any, is \( f \) concave up?