1. (12 points) The graph below is a plot of $f^{\prime}(x)$ (the derivative of $f$ ). Use the graph to answer questions about the function $f$.

(a) What are the critical points of $f$ ?
(b) For what value(s) of $x$ does $f$ have a local maximum?
(c) For what value(s) of $x$ does $f$ have a local minimum?
(d) What are the inflection points of $f$ ?
(e) On what interval(s) is $f$ concave up?
(f) If $f$ is a polynomial, what is the minimal degree of $f$ ?
