2. (14 points) The following is a graph of the derivative of $f$. The function $f$ is defined for all real numbers.

(a) For which values of $x$, if any, does $f$ have a local maximum?

(b) For which values of $x$, if any, does $f$ have a local minimum?

(c) Which values of $x$, if any, are inflection points of $f$?

(d) Over which intervals is $f$ increasing?

(e) Over which intervals is $f$ concave down?