1. (2 points each) Suppose $f$ is a twice-differentiable function. Use the graph of the derivative $f^{\prime}$, shown below, to answer the following questions. No explanations are required.

(a) At which of the marked $x$-values does $f$ attain a global minimum on the interval $[\mathrm{A}, \mathrm{F}]$ ?

B
(b) At which of the marked $x$-values does $f$ attain a global maximum on the interval [A,F]?

F
(c) At which of the marked $x$-values does $f^{\prime}$ attain a global minimum on the interval [A,F]?

## A

(d) At which of the marked $x$-values does $f^{\prime}$ attain a global maximum on the interval [A,F]?

F
(e) At which of the marked $x$-values does $f^{\prime \prime}$ attain a global maximum on the interval [A,F]?

## C

(f) For which of the marked $x$-values does $\int_{A}^{x} f^{\prime}(t) d t$ attain a global minimum on the interval [A,F]?

B
(g) For which of the marked $x$-values does $\int_{A}^{x} f^{\prime}(t) d t$ attain a global maximum on the interval [A,F]?

