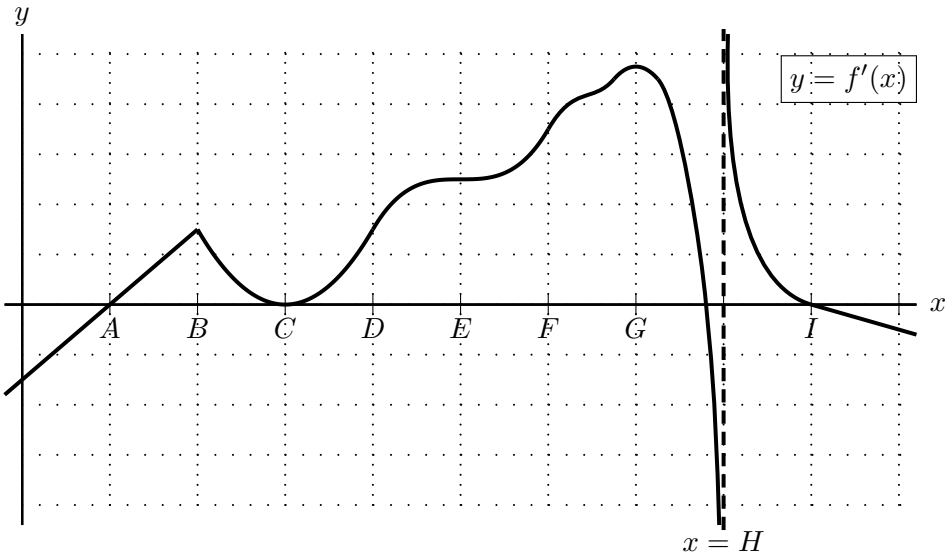
3. [12 points] The graph of a portion of $y = f'(x)$, the derivative of $f(x)$ is shown below. Note that there is a sharp corner at $x = B$ and that $x = H$ is a vertical asymptote.
The function $f(x)$ is continuous with domain $(-\infty, \infty)$.



For each of the questions below, circle all of the available correct answers.
(Circle NONE if none of the available choices are correct.)

a. [2 points] At which of the following six values of x is the function $f(x)$ not differentiable?

B C E F $\boxed{H}$ I NONE

b. [2 points] At which of the following six values of x does the function $f'(x)$ appear to be not differentiable?

A $\boxed{B}$ C D E F NONE

c. [2 points] At which of the following nine values of x does $f(x)$ have a critical point?

$\boxed{A}$ B $\boxed{C}$ D E F G $\boxed{H}$ $\boxed{I}$ NONE

d. [2 points] At which of the following nine values of x does $f(x)$ have a local minimum?

$\boxed{A}$ B C D E F G $\boxed{H}$ I NONE

e. [2 points] At which of the following nine values of x is $f''(x) = 0$?

A B $\boxed{C}$ D $\boxed{E}$ F $\boxed{G}$ H I NONE

f. [2 points] At which of the following nine values of x does $f(x)$ have an inflection point?

A $\boxed{B}$ $\boxed{C}$ D E F $\boxed{G}$ H I NONE