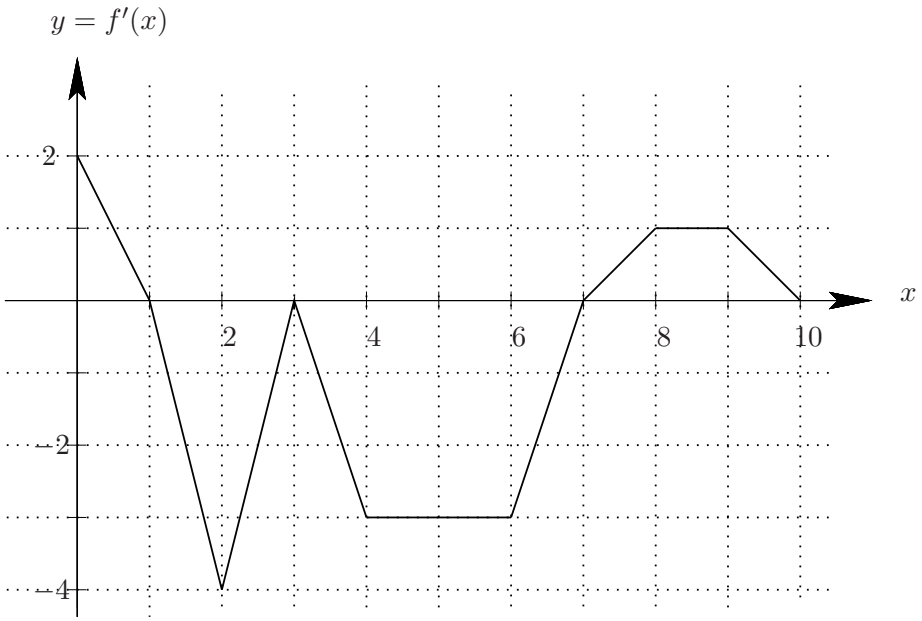
3. (20 points) Use the graph of $f'(x)$ on the closed interval $[0, 10]$ given in the figure below and the fact that $f(0) = 5$ to answer the following questions.



(a) What is the value of $f(3)$?

$f(3) = 2$

(b) For $0 \le x \le 10$, what x value(s) (if any) correspond to local maxima of f (if any)?

$x = 1, 10$

(c) For $0 \le x \le 10$, what x value(s) (if any) correspond to local minima of f (if any)?

$x = 0, 7$

(d) For $0 \le x \le 10$, what x value corresponds to the global minimum of f and what is the value of $f(x)$ at that point?

$x = 7$ $\qquad$ $f(x) = -7$

(e) If $H(x) = e^{f'(x)}$, find $H'(1.5)$.

$H'(1.5) = -4/e^2$