MATH 106-004 Quiz 2

Date: February 28, 2025	NAME:
Time: 14:50–15:20	

Problem 1 Let
$$f(t) = \begin{cases} \cos t & , t < 0, \\ 1 - t & , t \ge 0. \end{cases}$$

(a) (20 points) Find the derivative of the accumulation function
$$F(x) = \int_{x-1}^{x} f(t) dt$$
, where $0 < x < 1$.

(b) (20 points) Find the average value of
$$f(t)$$
 on $[-\pi/2, 0]$. No partial points.

Please write the average value below.



