

Quiz 2

Math 102, Term 171

NAME:

ID:

Problem 1. Find the equation of the tangent line of $f(x) = \int_{\cos x}^{\sin x} \frac{dt}{\sqrt{4-t^2}}$ at $x = \frac{\pi}{2}$.

Problem 2. Find the distance traveled by a particle moving according to the position function $f(t) = \frac{t^3}{3} + \frac{t^2}{2} - 2t$ during the time interval $0 \leq t \leq 2$.