Q: Find the arc length of the parametric curve defined by $x(t) = \cos t + \ln \left(\tan \frac{t}{2} \right)$ and $y(t) = \sin t$ on the interval from $\frac{\pi}{4} \le t \le \frac{3\pi}{4}$.

A: First, compute the derivatives :

-0.4

-0.2

0

0.4