

QUIZ #1: MATH 301-06 Feb 8, 2018

NAME:.....ID:.....

Exercise: (a) Find the length of the curve traced by

$$r(t) = \mathbf{i} \frac{t^2}{2} + \mathbf{j} \cos t + \mathbf{k} \sin t, 0 \leq t \leq \pi$$

(b) Find the equation of the tangent to the curve at the point corresponding to $t = \frac{\pi}{2}$.