

Taker Name:

GTID: 90

Section:

Grader #1:

GTID: 90

§13.3: Arc length

Find the length of the the curve segment

$$\mathbf{r}(t) = \langle t \sin t + \cos t, t \cos t - \sin t, 0 \rangle, \quad 1 \leq t \leq 3.$$

Hint: $L = \int_a^b \|\mathbf{r}'(t)\| \, dt.$

A	
J	
N	
G2:	
A	
J	
N	
G3:	
A	
J	
N	