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Taker Name:

GTID: 90

Section:

Grader #1:

GTID: 90

§13.3: Arc-length parameter

Find the arc-length parameter $s(t)$ for the curve

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

Hint: $s(t) = \int_{t_0}^t \|\mathbf{r}'(\tau)\| \, d\tau.$

A	
J	
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G2:	
A	
J	
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G3:	
A	
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N	