

BIRZEIT UNIVERSITY  
MATHEMATICS DEPARTMENT

Quiz 2

Math2311

Fall 2018/2019

Name.....BZU#.....Section#.....

If the curve length parameter from the base point  $t_0 = 0$  for a space curve is  $s = \sqrt{3}e^t - \sqrt{3}$ , then the arc length of the curve from  $t = -\ln 4$  to  $\ln 2$  is

1.  $\sqrt{3}$
2.  $\sqrt{3}/4$
3.  $4\sqrt{3}/4$
4.  $7\sqrt{3}/4$
5.  $7\sqrt{3}$
6.  $4\sqrt{3}$
7. None of the above