1. Which of the following are true regarding s, the arc length parameter?

   a) $s = \int |\alpha'(t)| \, dt$

   b) $s = \int \text{speed} \, dt$

   c) a closed form solution for s may not exist, even for regular curves

   d) exactly 2 of the above are true

   e) all of a), b) and c) are true