

Answer all questions and show your work. Unsupported answers may receive *no credit*. You may not use a calculator on this quiz. Allow 15 minutes for the quiz.

Name: _____ Section: _____

1. (a) (5 points) Find the center of mass of the region bounded by the curves $y = e^x$, $y = 0$, $x = 0$ and $x = 1$. (Assume constant density.)

- (b) (5 points) Graph $x = \sqrt{t}$ and $y = 1 - t$ for $t \in [0, 4]$. Find the derivative at $t = 1$.

