MATH 125	Quiz	Nov. 27	Name:

No books, notes or graphing calculators. Turn off your cell phones. Good luck!

(5) 1. Determine whether the following integral is convergent or divergent, and evaluate it if it is convergent.

$$\int_{0}^{3} \frac{1}{\sqrt[3]{t}} \,\mathrm{dt}$$

(5) 2. Find the coordinates of the center of mass of the uniform flat plate bounded by the x-axis, the graph of the function $y = \ln x$ and the vertical line x = e.