Name:
Student ID #:

Question 1. Sketch the parametric curve $x = \ln t$, $y = t^2$ by first eliminating the parameter.

Question 2. Consider the parametric curve $x = 2t$, $y = 1 + 2t^{3/2}$.
 (1) Find the second derivative at $t = 4$.
 (2) Find the length of the curve on the interval $0 \leq t \leq 1$.

Your Solution.