Computer assignment 1, MATH 114
Due October 25, 2012.

Use MAPLE, or MATLAB, or Mathematica software.

1. The solid is generated by revolving the region bounded by the curve $y = (\ln(\ln x))^3$ and the lines $x = 101$ and $x = 999$ about the x-axis.

   a) **(20 points)** disk/washer method.

   b) **(20 points)** shell method.

2. Find the length of the curve and graph it:

   (20 points) $y = \ln(\ln(\ln x))$, $e^9 \leq x \leq e^{234}$.

3. **(20 points)** Problem 31 on page 419.

4. **(20 points)** Problem 32 on page 419.