AP Test Question 2006
Part A - With Calculator


1) Let $R$ be the shaded region bounded by the graph of $y=\ln x$ and the line $y=x-2$, as shown.
a) Find the area of R.
b) Find the volume of the solid generated when $R$ is rotated about the horizontal line $y=-3$
c) Write, but do not evaluate, an integral expression that can be used to find the volume of the solid generated when $R$ is rotated about the $y$-axis.
