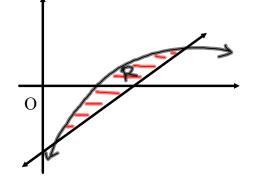
AP Test Question 2006 Part A - With Calculator



- 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.