

Homework of Calculus 1

November 2009

1. Find the area of the region bounded by the curve $y = e^x$, $y = e^{-x}$, dan $x = \ln 2$.
2. Find the volume of the solid generated by revolving the region bounded by $y = \ln x$, $x = 0$, $y = 0$ and $y = \ln e$ about the y-axis.
3. Find the volume of solid obtained by revolving region bounded by $y = \sin x$, $x = 0$, $y = 0$ and $x = \pi$ about the x-axis.