ONE Find the area of the surface generated by revolving the curve $y = \dfrac{e^x + e^{-x}}{2}$ in the interval $0 \leq x \leq \ln(2)$ about the x-axis.

TWO Consider the region R between the curves $y = \sin(x)$ and $y = \cos(x)$ for x between 0 and $\pi/4$.
a) Sketch the region R.
b) Set up, **but do not evaluate**, the definite integral that will give the volume of the solid generated when R is rotated about the x-axis.
c) Set up, **but do not evaluate**, the definite integral that will give the volume of the solid generated when R is rotated about the line $x = 2$.