Present neatly on separate paper. Justify for full credit. No Calculators.
Name _____Score _____ 8 minutes **Weight: x2**

Find the volume of the solid that results when the region enclosed by the given curves is revolved about the y-axis. In each case, sketch the region neatly.

1)
$$y = \ln x, \ \ x = 0, \ \ y = 0, \ \ y = 1$$
2)
$$x = \csc y, \ \ y = \pi/4, \ \ y = 3\pi/4, \ \ x = 0$$