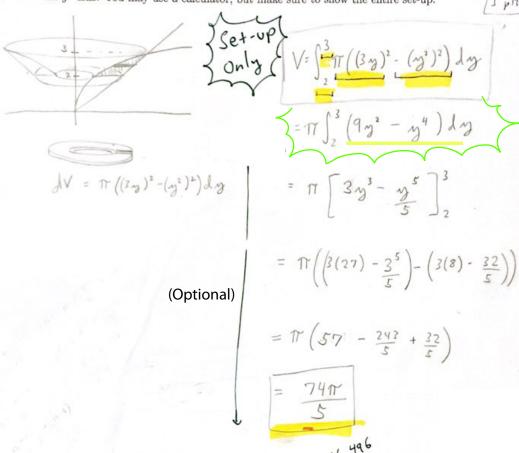
Show all work on this page for full and/or partial credit. Put a box around your final answers in each part.

1. Find the volume of: the region bounded by: y = 2, y = 3, x = 3y,  $x = y^2$ ; rotated around the y-axis. You may use a calculator, but make sure to show the entire set-up.



2. Find the volume of: the region bounded by: y=0, y=1, y=x,  $y=\sqrt{\ln(x)}$ ; rotated around the x-axis. Hint: solve that last equation for x. You may use a calculator, but make sure to show the entire set-up.

