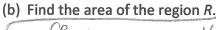
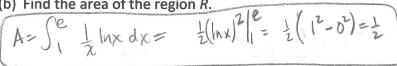
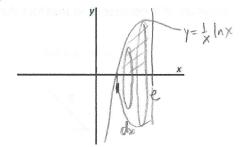
DAY 118 HW Volumes of Revolution by Disks: AP FRQs Calculator Active #1-2 NON-Calculator #3

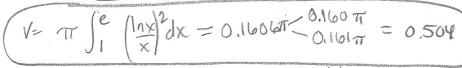
- 1. Let R be the region bounded by the graph of $y = \frac{1}{x} \ln(x)$, the x-axis, and the line x = e.
 - (a) Draw the region described.



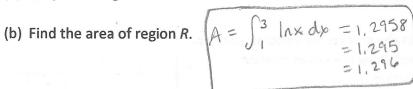


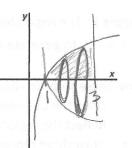


(c) Find the volume of the solid formed by revolving the region R about the x-axis, dx-thickness



- 2. Let R be the region enclosed by the graph of $y = \ln(x)$, the line x = 3, and the x-axis.
 - (a) Graph the region described.

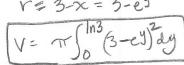




(c) Find the volume of the solid generated by revolving region R about the x-axis.

(d) Set up, but do not evaluate, an integral expression in terms of a single variable for the volume of the solid generated by revolving region R about the line x = 3

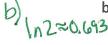


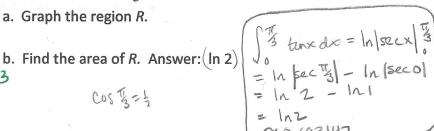


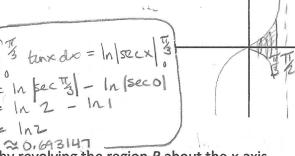
3. (Non-Calculator) Let R be the region in the first quadrant that is enclosed by the graph of $y = \tan(x)$,

the x-axis, and the line $x = \frac{\pi}{2}$.

a. Graph the region R.







- Cos Is = 5

