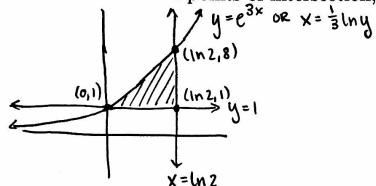
Quiz 9

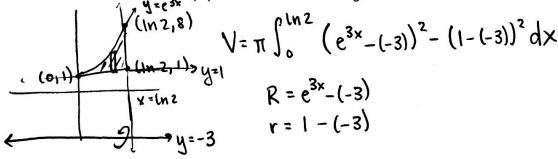
February 19, 2016

1. Sketch a graph of the region bounded by $y = e^{3x}$, y = 1, and $x = \ln 2$. Label all curves and points of intersection, and shade the region.



$$\frac{1}{3}$$
 ln y = ln 2
ln y = 3ln 2
ln y = ln(2³)
y = 8
(ln 2,8)

2. Set up the integral which gives the volume of the solid generated by revolving the region in (1) about the line y = -3.



3. Set up the integral which gives the volume of the solid generated by revolving the region in (1) about the line $x = \ln 2$.

