Math 65B - Summer 2016

Quiz 3: Tuesday June 14, 2016

1. (1 point) Find the arc length of the following function from x=0 to $x=\frac{\pi}{4}$: $y=\ln(\sec(x))$

2. (1 point) The given curve is rotated around the x-axis. Find the area of the resulting surface for $1 \le y \le 2$:

$$x = \frac{1}{3}(y^2 + 2)^{\frac{3}{2}}$$