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 $1 \leq y \leq 2$ :

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

