MATH 009C - Summer 2017

Quiz 1: Tuesday June 27, 2017

1. Determine if the integral is convergent or divergent:

$$\int_{2}^{\infty} \frac{1}{x \ln(x)} \ dx$$

2. Determine if the integral is convergent or divergent:

$$\int_{1}^{\infty} \frac{1}{\sqrt{x^6 + 1}} \ dx$$

2. Eliminate the parameter for the following parameterized curve. Sketch the curve and use arrows to denote the direction.				
	$x = \sin(t),$	$y = \csc(t),$	$0 < t < \frac{\pi}{2}$	