Math 65B - Summer 2016

Quiz 12: Thursday July 21, 2016

1. (1 point) Eliminate the parameter for the following parameterized curve. Sketch the curve and use arrows to denote the direction.

$$x = \sin(t), \quad y = \csc(t), \quad 0 < t < \frac{\pi}{2}$$

2. (1 point) Find $\frac{dy}{dx}$ and $\frac{d^2y}{dx^2}$. For what values of t is the curve concave up? $x = 2\sin(t), \quad y = 3\cos(t), \quad 0 < t < 2\pi$