## $\begin{array}{c} \text{CS 557} \\ \text{Homework 14} \\ \text{Due Thursday, 29 October 2009} \end{array}$

1. Find the implicit equation of the curve:

$$x = \frac{t}{t^2 + 1}; \quad y = \frac{t^2 - 1}{t^2 + 1}.$$

- 2. Find an inversion equation for the curve in Problem 1 and use it to find the parameter corresponding to  $(x,y)=(\frac{2}{5},-\frac{3}{5})$ .
- 3. Find a second inversion equation for the curve in Problem 1 and use it to find the parameter corresponding to  $(x,y)=(\frac{2}{5},-\frac{3}{5})$ .