Homework 7

1. Find the derivative of the function

$$y = \ln \frac{x}{x^2 + 1}$$

- 2. Find the integral
 - (a)

$$\int \frac{x(x-2)}{(x-1)^3} \ dx$$

(b)

$$\int \frac{\sec x \tan x}{\sec x - 1} dx$$