Calculus Quiz 2, March 8, 2001

(1) (a) Find the derivative of the function $y = \frac{1}{2}(\frac{1}{2}\ln\frac{x+1}{x-1} + \tan^{-1} x)$.
(b) Evaluate the integral $\int \frac{2x}{x^2+6x+13}dx$.

(2) Determine whether the following statement is true or false.
$\frac{d}{dx}[\tan^{-1}(\tan x)] = 1$ for all x in the domain.