## Derivatives of Inverse Functions

## Problem 1

Find the derivative of the function  $f(x) = tan^{-1}(\frac{x}{2})$ .

## Problem 2

Define the function  $f = x^3 + x$ . If  $h(x) = f^{-1}(x)$  and h(2) = 1, find the value of h'(2).