

Last Name: \_\_\_\_\_

First Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

## Quiz 7 (B)

**Question 1.** Find the derivatives of the following function:

(a) (3 marks)  $f(x) = \sqrt{\arctan x}$

(b) (3 marks)  $f(x) = x \cos \frac{1}{x}$

(c) (4 marks)  $f(x) = \sin \sqrt{x^2 - 1}$