

FIRST NATIONS UNIVERSITY OF CANADA
DEPARTMENT OF SCIENCE
MATH110 200930 Quiz 4

Time: 20 minutes

Instructor: Dr. Edward Doolittle

Name: _____

Student #: _____

(marks) Please do questions 1 and 2. You have 10 minutes to do each question, for a total of 20 minutes for the quiz. A non-programmable calculator of the type mentioned in the course outline is allowed.

- (10) 1. Find the derivative of the function

$$f(x) = \frac{\cos x}{\tan x + \sin x}$$

(10) 2. Find the limit

$$\lim_{t \rightarrow 0} \left(\frac{\sin 3t}{t} \right)^2$$