

FIRST NATIONS UNIVERSITY OF CANADA
DEPARTMENT OF SCIENCE
MATH110 200930 Quiz 5

Time: 20 minutes

Name: _____

Instructor: Dr. Edward Doolittle

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 y' by implicit differentiation for the implicitly defined function

$$y^4 + x^2y^5 = 8 + 3x^2y^2$$

- (10) 2. The cost function for the production of a commodity is $C(x) = 339 + 25x - 0.09x^2 + 0.0004x^3$. Find and interpret $C'(100)$. How much does $C'(100)$ differ from the cost of producing item number 101 after 100 have been produced?