UNIVERSITY OF REGINA
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 110 200730 Quiz 9 (Section 004)

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. If
you finish early, I suggest you check your work thoroughly. **Please do not disturb your colleagues
by climbing over them while they are trying to write the quiz.**

(10)   1. Evaluate $\int_0^1 (1+x^3)^2 \, dx$

(10) 2. Find $\displaystyle\int_{-1}^{3} f(x)\,dx$ where

$$f(x) = \begin{cases} 2 - x & \text{if } -1 \le x \le 1 \\ 2x^2 - 1 & \text{if } 1 \le x \le 3 \end{cases}$$