

UNIVERSITY OF REGINA
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 110 200730 Quiz 3 (Section 004)

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. 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. Let $f(x) = x^2 \cos \frac{1}{x}$. Evaluate $f'(a)$ where $a \neq 0$.

- (10) 2. Find the points on the curve $y = \frac{\sin x}{2 + \cos x}$ at which the tangent is horizontal.