

Name:

SM223 – Calculus III with Optimization
Assoc. Prof. Nelson Uhan

Fall 2017

Quiz 7 – 9 November 2017

Instructions. You have 10 minutes to complete this quiz. You may use a calculator. You may not use any other materials (e.g., notes, homework, books). Show all your work.

Problem	Weight	Score
1	1	
2	1	
3	1	
Total		/ 30

Problem 1. Evaluate the following integral: $\int_0^4 \int_0^1 (x + y)^2 dx dy$.

Problem 2. Evaluate the following integral: $\int_1^2 \int_0^x (3x - 2y) dy dx$.

(turn over)

Problem 3. Reverse the order of integration of $\int_0^1 \int_{x^3}^x (x^2 + 2y) dy dx$. Do not evaluate the integral.

