

Quiz 4

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (5 marks) §5.3 #29 Evaluate the integral.

$$\int_{-1}^2 (x - 2|x|) dx$$

Question 2. (5 marks) §5.4 #24 If $f(x) = \int_0^{\sin x} \sqrt{1+t^2} dt$ and $g(y) = \int_3^y f(x) dx$, find $g''(\pi/6)$.