

Name: _____
Student ID: _____

Quiz 9

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) §27.6 #37 Find the slope of a line tangent to the curve of $y = e^{-x/2} \cos 4x$ for $x = 0.625$.

Question 2. (2 marks) §25.1 #11 Determine the value of a that makes $F(x)$ an antiderivative of $f(x)$.

$$f(x) = \frac{1}{x^2}, \quad F(x) = \frac{a}{x}$$

Question 3. (3 marks) §25.1 #11 Find the antiderivative of the given functions.

$$f(s) = \frac{-2}{(2x+1)^2}$$