

Name: \_\_\_\_\_  
Student ID: \_\_\_\_\_

## Quiz 8

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.** Find the derivatives of the given functions.

a. (3 marks) §27.2 # 9

$$y = -3 \csc \sqrt{2x+3}$$

b. (3 marks) §27.3 # 31

$$y = \tan^{-1} \left( \frac{1-t}{1+t} \right)$$

c. (4 marks) §27.5 #

$$y = \sqrt{x^2+1} - \ln \frac{1+\sqrt{x^2+1}}{x}$$