

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

## Quiz 11

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.** pg.198#27 (5 marks) Verify the following identity:

$$\frac{2 \cot \theta}{\csc^2 \theta} = \sin 2\theta$$

**Question 2.** pg.203#2f (5 marks) Solve for  $x$  where  $0 \leq x < 2\pi$ , giving the exact solutions:

$$4 \cos^2 x - 3 = 0$$