

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

## Quiz 10

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.192#3d (4 marks) Sketch the graph of the function  $y = 5 \cos(\pi\theta)$  on the interval  $-2 \leq x \leq 2$ .

**Question 2.** pg.198#10 (3 marks) Prove(Verify) the following identity:

$$\sin x(\csc x - \sin x) = \cos^2 x$$

**Question 3.** pg.203#3c (3 marks) Solve for  $\theta$  giving the exact solution,  $0^\circ \leq \theta < 360^\circ$ .

$$\sqrt{3} \sec \theta - 2 = 0$$