Student ID:

Name: YANN LAMONTAGNE ent ID:

03=210

02=150°

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:

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

$$\frac{2\cos\theta}{\sin\theta} = 2\sin\theta \cos\theta \left(\frac{1}{\sin^2\theta}\right)$$

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

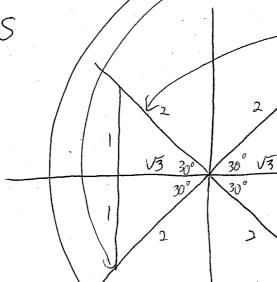
$$4\cos^2 x - 3 = 0$$

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

cosx = ±
$$\sqrt{3}$$
 = $\frac{adj}{hyp}$







Qu = 320

$$Q = \overline{II}, \frac{517}{6}, \frac{717}{6}, \frac{1177}{6}$$