

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. pg.161#34 (4 marks) A 7.5m tall lighthouse stands on the top of a seashore cliff. From a point offshore the angles of elevation to the top and bottom of the lighthouse are 47.20° and 45.22° respectively. Find the height of the cliff.

Question 2. pg.182#3f (4 marks) Find the exact value of $\cot 240^\circ$.

Question 3. pg.186#4n,3e (1 mark each)

- Convert to radians: 315° .
- Convert to degrees: $\frac{5\pi}{4}$.