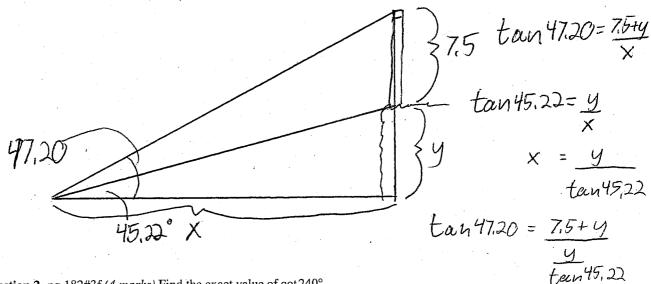
Name: YAWN LAMONTAGNE

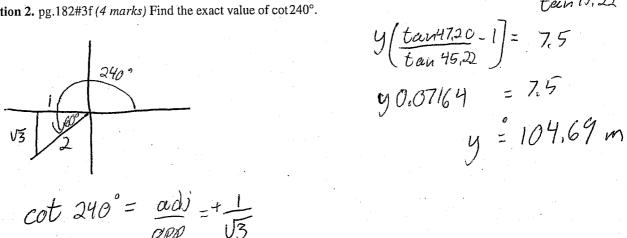
Quiz 9

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°.



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

a. Convert to radians: 315°.
b. Convert to degrees:
$$\frac{5\pi}{4}$$
.
$$315\left(\frac{11}{180}\right) = \frac{711}{4}$$

$$\frac{5\pi}{4}\left(\frac{180}{\pi}\right) = 225^{\circ}$$