

Name: _____
Student ID: _____

Quiz 8

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.142#26 (2 marks) Express in terms of a simple logarithm:

$$\ln \sqrt[3]{x\sqrt{y}}$$

Question 2. pg.142#36 (2 marks) Express as a single logarithm with coefficient of one:

$$\frac{1}{2} \log x + \frac{3}{2} \log 2y - \log x^2 y$$

Question 3. pg.144#73 (6 marks) Solve for x :

$$\log_2(x+1) + \log_2(x+4) = 2$$