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## 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*:

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