Name: _____

Student ID: _____

Quiz 7

This quiz is graded out of 10 marks. No books, notes, graphing calculators 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.133#78 *(6 marks)*
Graph each pair of functions on the same axes, with $y = x$:

$$y = 3^x + 1 \text{ and } y = \log_3(x - 1)$$

Question 2. pg.142#36 *(4 marks)*
Express as a single logarithm with coefficient of one:

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