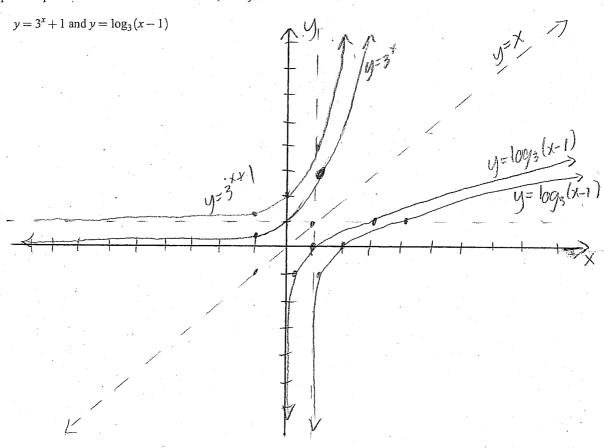
Name: Student ID: YANN LAMONTOGNE

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:



Question 2. pg.142#36 (4 marks)

Express as a single logarithm with coefficient of one:

$$\frac{1}{2}\log x + \frac{3}{2}\log 2y - \log x^{2}y = \log \sqrt{x} + \log (2y)^{\frac{3}{2}} - \log x^{2}y$$

$$= \log \sqrt{x} \sqrt{8} (y)^{\frac{3}{2}}$$

$$= \log 2\sqrt{x} \sqrt{y}$$

$$= \log 2\sqrt{x} \sqrt{y}$$

$$= \log 2\sqrt{x} \sqrt{y}$$