

Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

## Quiz 3

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.27#8g (5 marks) Simplify the complex fraction:

$$\frac{\frac{1}{x} - \frac{1}{x+1}}{\frac{1}{x+1}}$$

**Question 2.** pg.33#7v (3 marks) Rationalize the denominator and simplify:

$$\frac{\sqrt{x}}{\sqrt{x} + \sqrt{y}}$$

**Question 3.** pg.32#5l (2 marks) Simplify:

$$3\sqrt{11} - \sqrt{44} + \sqrt{99}$$