

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

## Quiz 2

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.** Find the derivative of each of the given functions:

- a. pg.669#17 (3 marks)

$$f(x) = -6x^7 + 5x^3 + \pi^2$$

- b. pg.673#7 (3 marks)

$$y = (x^4 - 3x^2 + 3)(1 - 2x^3)$$

- c. pg.673#23 (4 marks)

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