

**MA205, Calculus II**

Class Quiz 2 - 23 August 2007

Name:----- Section:-----

Show all of your work. An unjustified answer is not correct! Do Problems 1 and 2, write beat navy in the third.

**THIS QUIZ IS WORTH 8 POINTS**

1) **Worth 3 points**) Write the following sum in expanded form:

$$\sum_{i=1}^6 f\left(\frac{x_{i-1} + x_i}{2}\right)\Delta x$$

2) **Worth 3 points**) Using the Midpoint or Trapezoid rule and  $n = 5$  estimate the area under the curve  $f(x) = x^3$  with  $0 \leq x \leq 5$

3) **Worth 2 points**) In the following problem find a formula for the nth term of the sequence.

a) The sequence  $1, -1, 1, -1, 1, \dots$