Math 205
Assignment #6
Due: March 6, 2015

- Complete the following integrals from the 6th edition of your text – Hughes-Hallett– pg 410
  a. #138 (4 marks)
  b. #135 (4 marks)
  c. # 140 (4 marks)
  d. #146 (4 marks)

- Sketch the graph for question # 160 – pg 410 from the 6th edition of HH and find the area. (**5** marks)

- Question #182, pg 411 from the 6th edition of your text – Hughes-Hallett or HH (**4** marks)

- Question #188, pg 411 from the 6th edition of HH (5 marks)

- The SineIntegral function Si(x) is defined by the expression: $Si(x) = \int_0^x \frac{\sin t}{t} dt$:
  a. Use the Trapezoidal Method to estimate the value of Si(1) by using a regular partition with n = 10
  b. Use Simpson's Rule to estimate the value of Si(1) by using a regular partition with n = 10
  c. To 6 decimal places, Si(1) = 0.946083 – compare the result from parts a and b and comment on the accuracy of each method.
  (10 marks)