MA 103   KATIRAIE   QUIZ #4 Form B   SECTIONS (4.1, 4.2, 5.1)   Spring 2007

NAME _____   SCORE: _____/ 20

*** RETAIN ALL GRADED PAPERS FOR YOUR RECORDS ***

1.   A student takes out two loans to help pay for college.
One loan is at 7.5% simple interest, and the other is at
9.5% simple interest. The total amount borrowed is $3500,
and the interest after 1 year for both loans is $302.50.
Find the amount of each loan.

(Hint: 7.5% = 0.075 and 9.5% = 0.095 Now Set up a system of equations, and
Multiply one of the equations by 1000 to get rid of decimals.)

2.   A boat travels downstream 150 miles in 5 hours. The return
trip takes 7 hours and 30 minutes. Find the speed of the
boat without a current and the speed of the current

3a) Write a polynomial that gives the sum of the areas of a square with sides of length x and a circle with radius x.

b) Find the combined area when x = 10 inches.

4.   A number minus twice a second number equals 7.
      The Sum of the two numbers is 16.
      Find the two numbers.

5.   The sum of two numbers is 25, and their difference
      is 11. Find the two numbers.