

MONTGOMERY COLLEGE
Department of Mathematics
Rockville Campus

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

NAME _____ SCORE: ____/ 20

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1. a) 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.

2. 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.)

