

MONTGOMERY COLLEGE  
Department of Mathematics  
Rockville Campus

MA 103 KATIRAIE QUIZ #4 Form A SECTIONS (4.1 and 4.2) FALL 2006

NAME \_\_\_\_\_ SCORE: \_\_\_\_\_ / 20  
\*\*\* RETAIN ALL GRADED PAPERS FOR YOUR RECORDS \*\*\*

1. Solve the following system of equations using substitution method.

$$\begin{cases} 2x + y = -1 \\ 2x - y = -3 \end{cases}$$

2. Solve the following system of equations using Elimination method.

$$\begin{cases} 2x + y = 2 \\ 4x + 2y = 4 \end{cases}$$

3. Twice a number minus a second number equals 5.  
The Sum of the two numbers is 16.  
Find the two numbers.

4. A student takes out two loans to help pay for college.  
One loan is at 8% simple interest, and the other is at  
9% simple interest. The total amount borrowed is \$3500,  
and the interest after 1 year for both loans is \$294.  
Find the amount of each loan.