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

NAME _____   SCORE: _____/ 20

1. A student takes out two loans to help pay for college. One loan is at 9% simple interest, and the other is at 7% simple interest. The total amount borrowed is $6000, and the interest after 1 year for both loans is $470. Find the amount of each loan.

2. A boat travels upstream 120 miles in 6 hours. The return trip takes 4 hours. Find the speed of the boat without a current and the speed of the current.

3. A 10-foot wide sidewalk around a rectangular swimming pool has a total area of 2400 square feet. Find the dimensions of the swimming pool if the pool is 20 feet longer than it is wide

4.   A vending machine will only accept quarters and dimes. When the coins are collected, the machine has 226 coins worth $24.10. How many quarters were there? How many dimes?   Show your work!

5. Solve the following system of equations using Substitution or Elimination method.

$$\begin{cases} 3x+2y=-1 \\ 4x-y=-5 \end{cases}$$