EE200-03&04   (071)

Homework # 2

1. Find the (r-1)'s complements of the following numbers:

   $(24500.375)_{10}$, $(F96.8)_{16}$, $(1011000)_2$, and $(100100.011)_2$.

2. Perform the binary subtraction 110110 – 10101.011 using the 2's complement.

3. Represent the signed numbers (-75) and (+52) in binary using 8 bits. Then add the two numbers and convert the sum to decimal.

4. Represent the decimal number 482.5 using BCD and 84-2-1 codes.

5. Represent the message "Quiz 2 is next class" in ASCII using the hexadecimal representation.