

1. A byte of data read from memory in an x88 based microprocessor is observed with an instrument to be 11000110B. [Hint: 'B' means binary]
  - a. Express the data as a hexadecimal number.
  - b. What is the decimal value of the data if it is unsigned
  - c. What is the decimal value of the data if it is signed (use 2's complement)?
2. The address output on the address bus of an x88 microprocessor is 10000000000001011010B.
  - a. Express the address in hexadecimal form.
    - i. What is the hex value of the MSByte?
    - ii. What is the hex value of the LSByte?
  - b. What is the equivalent decimal value?
3. Express how the decimal number -950 would be represented for processing by the x86 assuming the value is stored as a word of data.

