Name:

Date:

Class: CS 160

Assignment #4

1) Convert the following decimal numbers to 8-bit floating point notation using excess notation for exponent.  Indicate if truncation error exists. (Four Points)

1. 1.510 =
2. 3.7510 =
3. -1.2510 =
4. -2.37510 =

2) Convert the following 8-bit floating point notation using excess notation for exponent to decimal numbers. (Four Points)

1. 111011002 =
2. 101111002 =
3. 101011012 =
4. 100111002 =

3) Convert the following binary to hexadecimal. (Four Points)

1. 101001102 =
2. 001101012 =
3. 111111102 =
4. 111011002 =
5. 101100002 =
6. 011110002 =
7. 011000112 =
8. 010101012 =

4) Convert the following hexadecimal numbers to binary. (Four Points)

1. 3416 =
2. 1B16 =
3. 7016 =
4. F416 =
5. C816 =
6. 5D16 =
7. 9A16 =
8. 2E16 =

5) List three common “types” of data storage. (Four Points)