

EE 2310 Worksheet #1 -- Numbers

1. Convert the following positive binary numbers to hexadecimal:

1100111.01

10.010110101

2. Convert the following hexadecimal numbers to unsigned binary (byte form):

0x 4.d

0x 0.e8

3. Convert the following decimal numbers to positive binary (not 2's complement):

25.25

0.875

4. Convert the following positive binary numbers to decimal:

10.0001

1111.111

5. Convert the following decimal numbers to signed binary (2's complement byte form):

-64

127

6. Convert the following 2's complement binary numbers to decimal:

1000 1110

0011 0110

7. Perform the indicated math operations. When you get the answer, convert it to decimal. All numbers are two's complement binary.

0010 1100
- 0111 1001

0101 0000
+ 1100 0011