CS270 Worksheet – Number conversion Name_____

1) Convert -50 to an 8 bit two’s complement number

2) Convert 1111 0101 1101 from 12 bit signed magnitude to a decimal number

3) Convert -139 to a 12 bit one's complement number

4) Convert 1100 0100 from 8-bit two’s complement to a decimal number

5) First convert 25 and 87 to two's complement then add them, show the answer in two's complement and decimal

6) First convert 0x53F and 0xC7A to two's complement then subtract them, show the answer in two's complement and decimal

7) Convert 1101 1111 0001 0101 0110 1000 1011 0010 to hexadecimal

CS270 Worksheet – Number conversion Name_____

8) Convert 0xCD76F148B to binary

9) **AND** 0x4AFD and 0xF4F7 together

10) **OR** 1110 1100 0000 1111 and 0101 1101 0001 0110 together

11) **XOR** 0x7FF5 and 0x1DBA together

12) Convert -85.0 to single precision floating point (32-bit)

13) Convert 0 1000 0010 100 0110 0000…. to decimal from single precision floating point (32-bit)