1. (Listing thetwos complement table)  
   01111 = 15  
   01110 = 14  
   01101 = 13  
   01100 = 12  
   01011 = 11  
   01010 = 10  
   01001 = 9  
   01000 = 8  
   00111 = 7  
   00110 = 6  
   00101 = 5  
   00100 = 4  
   00011 = 3  
   00010 = 2  
   00001 = 1  
   00000 = 0  
   11111 = -1  
   11110 = -2  
   11101 = -3  
   11100 = -4  
   11011 = -5  
   11010 = -6  
   11001 = -7  
   11000 = -8  
   10111 = -9  
   10110 = -10  
   10101 = -11  
   10100 = -12  
   10011 = -13  
   10010 = -14  
   10001 = -15  
   10000 = -16  
   a. 3  
   b. 15  
   c. -4  
   d. -6  
   e. 0  
   f. -16
2. a. 00000110  
   b. 11111010  
   c. *Need to revise/work on this, seems extreme to have to convert to a pattern of 8 bits but there may be some tips later in the reading.*