Binary/Two's Complement Questions

1. Convert the following decimal numbers into binary…

    a)57   **00111001**   b) 134 **10000110**   c) 201 **11001001**

2. What is the biggest number that can be represented in 16 bits?

    65535

3. Convert the following binary numbers to decimal…

    a) 00101011 **43**   b) 11010100 **212**

    d) 1000111110 **574**   e) 1110000011100011 **57571**

4. Convert the following numbers their 2's complement (assuming 8 bit storage)…

    a)-5 **11111011** b) -30 **11100010** c) -97 **10011111** d) -124 **10000100**

5. What is the largest number that can be held in 1 byte using 2's complement? **127**

6. What is the smallest number that can be held in 1 byte using 2's complement? **-128**