UVa Email ID (no aliases please):   ___bp8qg_____

Name _Bamphiane Annie Phongphouthai___   Lab section __Tuesday 5-6:15

Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45   into octal
    $0100\ 1111\ 0100\ 0101_2$
    $0\ 100\ 111\ 101\ 000\ 101_2$
    048505_8
2. 269_{10} into radix 7
    269/7= 38
    269%7=3
    38/7=5
    38%7=3
    5/7=0
    5%7=5
            533_7
3. 110011011110_2 into decimal
    2048+1024+0+0+128+64+0+16+8+4+2+0=**3294_{10}**
4. $2BD_{19}$ into decimal
    $2(19^2)+11(19^1)+13(19^0)=$**$944_{10}$**

5. Given the following positive binary integer in two's complement:
    0101001101011101

    a) Convert the number to hexadecimal:
        0101 0011 0101 1101
        5   3   5   D = **0x535D**
    b) Negate the number.
        1010 1100 1010 0010
        +_____1
        1010 1100 1010 0011$_2$