UVa Email ID (no aliases please): _lx2hy_____

Name ____Liya Xu_____ Lab section ___103____

Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45 into octal

= 0100111101000101
= 47505

2. 269_{10} into radix 7

= 553

3. 110011011110_2 into decimal

= 2+4+8+16+64+128+1024+2048
= 3294

4. $2BD_{19}$ into decimal

= 2*(19^2) + 11* (19^1) + 13*(19^0)
= 944

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

   a) Convert the number to hexadecimal:

= 0x535d

   b) Negate the number.

Flip, then plus one: 1010 1100 1010 0010 + 1 = 1010110010100011