UVa Email ID (no aliases please): jhc6we

Name: Holt Crews Lab section: 6:30pm

Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45 into octal

binary: 0011 1111 0011 0101 **Octal:** 047505
decimal: 20293, 325

2. 269_{10} into radix 7

radix 7: 533

3. 110011011110_2 into decimal

2^11,...2^0 **decimal:** 2+4+8+16+64+128+1024+2048 = 3294

4. $2BD_{19}$ into decimal

19^2,...19^0 **decimal:**(1*13)+(19*11)+(19^2*2) = 944

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

   a) Convert the number to hexadecimal:
   0101001101011101 = 0x535d

   b) Negate the number.
   1010110010100011 = 0xaca3