UVa Email ID (no aliases please): yl2vv

Name Yubin Lim Lab section CS2150-103

Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45 into octal

0100 1111 0100 0101

000 100 111 101 000 101
0 4 7 5 0 5

47505

2. 269_{10} into radix 7

267/7 = 38 R 3
38/7 = 5 R 3
5/7 = 0 R 5

533

3. 110011011110_2 into decimal

1100 1101 1110
C D E = 0xcdc

12(16^2) + 13(16) + 14(1) = **3294**

4. $2BD_{19}$ into decimal

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

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