// Dion Niazi dn3gy 14 02 2017 radixWorksheet.pdf

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Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45 into octal
   0100 1111 0100 0101
   100 111 101 000 101
   4 7 5 0 5
   47505_8

2. 269_{10} into radix 7
   269/7 = 38 r 3
   38/7 = 5 r 3
   5/7 = 0 r 5
   533_7

3. 110011011110_2 into decimal

   $2^{11} + 2^{10} + 2^7 + 2^6 + 2^4 + 2^3 + 2^2 + 2^1 = 2048 + 1024 + 128 + 64 + 16 + 8 + 4 + 2 = 3294_{10}$

4. $2BD_{19}$ into decimal

   $2*19^2 + 11*19^1 + 13*19^0 = 7310 + 209 + 13 = 7532_{10}$

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

   a) Convert the number to hexadecimal:
   $535D_{16}$

b) Negate the number.
1010110010100011_2
$ACA3_{16}$