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Name _____Brian Barbu_____ Lab section ____7_____

Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45 into octal

= 0100 1111 0100 0101_2 = 047505_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

$2^{11} + 2^{10} + 2^7 + 2^6 + 2^4 + 2^3 + 2^2 + 2 = 3294$

4. $2BD_{19}$ into decimal

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

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

    a) Convert the number to hexadecimal:

    0x535D

    b) Negate the number.

1010 1100 1010 0011