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Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45 into octal
    a) => 0100 1111 0100 0101
    b) =>0 100 111 101 000 101
    c) =>4 7 5 0 5 => 47505

2. 269_{10} into radix 7
    a) => 269/7^2 = 5 r 24
    b) => 24/7^1 = 3 r 3
    c) => 3/7^0 = 3 r 0
        i. =>533

3. 110011011110_2 into decimal
    a) => 2^1 + 2^2 + 2^3 + 2^4 + 2^6 + 2^7 + 2^10 + 2^11 => 3294

4. $2BD_{19}$ into decimal
    a) => (2*19^2) + (11*19^1) + (13*19^0)
    b) => 722 + 209 + 13 = > 944

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

    a) Convert the number to hexadecimal:
        i. 0101 0011 0101 1101 => 5 3 5 D => 535D

    b) Negate the number.
        i. 0101 0011 0101 1101 => 1010 1100 1010 0010 + 1 =>
            1. 1010 1100 1010 0011