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Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45 into octal

In binary: 0100 1111 0100 0101 To octal: 0 100 111 101 000 101 4 7 5 0 5

2. 269_{10} into radix 7

269/7 = 38 r 3 38/7 = 5 r 3 5/7 = 0 r 5533

3. 110011011110₂ into decimal

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

4. 2BD₁₉ into decimal

- 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 13

0x535D

b) Negate the number. 1010110010100010 + 1 1010110010100011