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Name Amber Liu____ Lab section __106(3:30-4:45)__

Lab 4 - Radix Conversion Worksheet

Convert:

1. 0x4F45 into octal **47505**
   = 100111101000101 Binary
   = 20293-> 20293/8 = 2536 remainder 5
   = 2536/8 = 317 remain 0
   = 317/8 r5
   = 39/8 r7
   =4/8 r4
   = 47505

2. 269_{10} into radix 7 **533**
   =269/10 ->38 r3
   =38/7 -> 5 r3
   =5/7-> 0 r5

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

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

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

   a) Convert the number to hexadecimal:
      0101 0011 0101 1101
      535D
   b) Negate the number.
      1010 1100 1010 0010+1 = 1010 1100 1010 0011