JVa Email ID (no aliases please):
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Name: Christian Kinzer_____ Lab section: 9:30 AM___

Lab 4 - Radix Conversion Worksheet

Convert:

- 1. 0x4F45 into octal 4 * 16^3 + 15 * 16^2 + 4 * 16^1 + 5 * 16^0 = 20293 8^4 = 4096, 4*8^4 = 16384, 20293 - 16384 = 3909 8^3 = 512, 7*8^3 = 3584, 3909 - 3584 = 325 8^2 = 64, 5*8^2 = 320, 325 - 320 = 5. Final Answer: **47505**
- 2. 269_{10} into radix 7 $7^2 = 49$, $5*7^2 = 245$, 269 - 245 = 24 $7^1 = 7$, $3*7^1 = 21$, 24 - 21 = 3Final Answer: **533**
- 3. 110011011110_2 into decimal 2 + 4 + 8 + 16 + 64 + 128 + 1024 + 2048 =**3294**
- 4. $2BD_{19}$ into decimal $2 * 19^2 + 11 * 19 + 13 = 722 + 209 + 13 =$ **944**
- 5. Given the following positive binary integer in two's complement: 0101001101011101

- a) Convert the number to hexadecimal: 16^3=4096, 5*16^3=20480, 21341-20480=861 16^2=256, 3*16^2=768, 861-768 = 93 5*16 = 80, 93-80 = 13. Final Answer = **0x535D**
- b) Negate the number.

1010110010100011 (flip all bits and add 1)