name: James Bryant Connell Friday Lab #5 CSC 1301

- 1) 61100101
 a) first flip the number
 16011010 (one's compliment)
 b) then add 1
 10011011 (two's compliment)
- 2) Sin 4 bits

 0101

 1w019 complement = 1011

 5in 8 bits

 00000101

 two's complement = 11111011

 two's complement = 11111011

zeros become ones for the

- 2) the largest quantity is 1271 or DIIIIIIII the smallest number is -128, or 10000000
- 3) 00110101 53 00001100 +12 01000001 65
 - + 00000010 + 10 01111000 + 2 01111000 120
 - + 1111011 + (-s) - 00111000 SG

4)

- S) floating point in digital systems represent a fraction of a whole number; for ex.

 101.101 is 55/8

 101.101 is 55/8

 1×2-12-22-3 and so on
 - 1) 0)3
 - b) 13
 - c) 59
 - 9) s

- 2) a) 17
 - 13161
 - c) 3311
 - 2985
- 3) a) hex B binary - 1011
 - 6) hex FAO binary - 111110100000
 - c) hex 2A binay - 101010