Project 1

5

1: A. 0110 0001 1111 = 61F B. 1000 1111 1100 C-0001 0110 0100 0101

4 5 = 1645

2.1: A. 1100 1010 = - [26+0+0+23+0+2+0] = 64+8+2 = (-74)1 B. 1111 0010 =-[26+25+24+0+0+2+0] = 64+32+16+2

=(-114)dC. 1000 0111 $=-[0+0+0+0+2^2+2+1]=4+2+1$

=(-7)1

2.2: A. 1100 1010 - 1's complement => 00110101

= - [25+24+22+1] => (-53)d *Negative because

original LMBist

B. 1111 0010 - 0000 1101 $=-[2^3+2^2+1]$ => (-13)2

6

C.1000 0111 → 0 111 10000° DIM MA

= - [26+25+24+23] => (-120)

2.3: A. 1100 1010 → 2's complement => 0011 0110

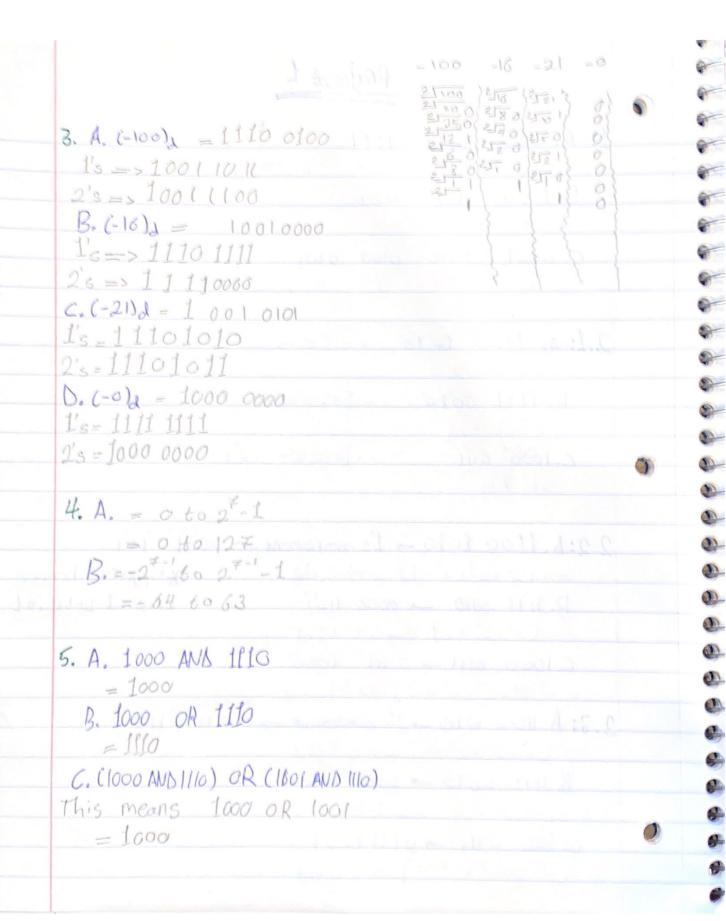
=- [25+24+22+2] => (-54) d

B. 1111 0010 - 0000 (110 M) And (1)

 $=-\left[2^{3}+2^{2}+2\right]=>(-14)d$

C. 1000 0111 - 01111001

 $=-[2^{6}+2^{7}+2^{4}+2^{3}+1] \Rightarrow (-121)$



	6. First convert to binary:	
	$(25)_{d} = 000 100 $	alam-n4
	(65)d = 01000001, To make negative =	one's complement
		= 10111111
	then we add in binary:	7,000
	+ 1011111	
	= 1605110000 => then two's:	
	Total Control of the	1 1 00
	=1's: 00 100 111 =>	> 00/01000
	00101000 = (4012	
	= (-40)d	
	·	
	7. Carried and	2 40
	(+4c) d = 00101000	2/20 0 Right
	1's complement => 11 010111	250 199
	2's complement => 11011000	2/2/
		25 0
0		
100		