HW1 . a. 1100 olly - signed, so regative -1(2°)+1(26)+1(2°)+1(21)+1(2°)=(57,0) b. 0010 1000 , -> 5 good, so positive 1(25) + 1(23) = (40,0) C. 1111 00113 1(20) + 1(26) + 1(26) + 1(24) + 1(21) + 1(20) = (243,0 2 0. 65531 , 216 = 65536 , 65536 > 65531 n=(16) b. 1366210 2" > 13662, 2" = 16384, 163847 13662 A=(14) (, -2658,0 20-1 > 2658, 213-1 = 4096, 4046 > 2658 a. 1010 1001 1101 1101 = (A9DD16) A 9 D D b. 1111 0010 0100 00112 = (F24316) F 2 4 3 C. 1010 1110 6101 1100 = (AESCHO) A E 5 C 4. a. 303916 = 3(163) + 0(162) + 3(161) + 3(16) = (1234511) b. 10216 = 1(162) + 13(16') + 2(160) = (46610) (A5 E3 = 10(163) + 5(163) + 14(161) + 3(160) = (424670)

a. -481/10 256 | 461 | 48110 = 1E116 16 225 14 (E) FIE + 1'S compliment EIF+ 2's compliment (E1F16) b. -19410 16 194 12(0) 194,0 = (6,6 6 6 FF - 66 39 + 1's compliment (4A16) 4 A + 2's compliment C. 202010 256 | 2020 7 2020 10 = (7EH16) 16 226 14(E) 4

					1-10-90
	HW1	(cont.))		
6.					
	2		1	65,0=010000012	
		32		6510 010000013	
		16		10111110 - 10 - 1	
	2			10111110 + 1'5 compliment	
		4	0	10111111 + 2's compliment	
		12	0	10111111 do compliment	
		1	1	[[]	
	1 117		1	101111112	
	b. 113				
		113		113,0= [011100012]	
			0		
	2				
			0		
0	3		1		
	3	3	1		10000
	31	1	1		
	C - 119,	0			
	2	119	1	11910 = 01110111	
		59	1		
	2	29	1	10001000	
	2	14	0	+ 1	
	7	7	1	1000 1001	
	3	3	1		
	2	1	1	100010012	
7.	5 P	R	1	N G = 535052494847	
	53 50	52	49	4F 47	

8. 4.00000 < x < 11111 1(24) + 1(23) + 1(22) + 1(21) + 1(20) = 31 (0 < x < 31) b. 10000 < x < 01111 -1(24) = -16 1(2)+1(2)+1(2)+1(20)=15 (-16 < x = 15)