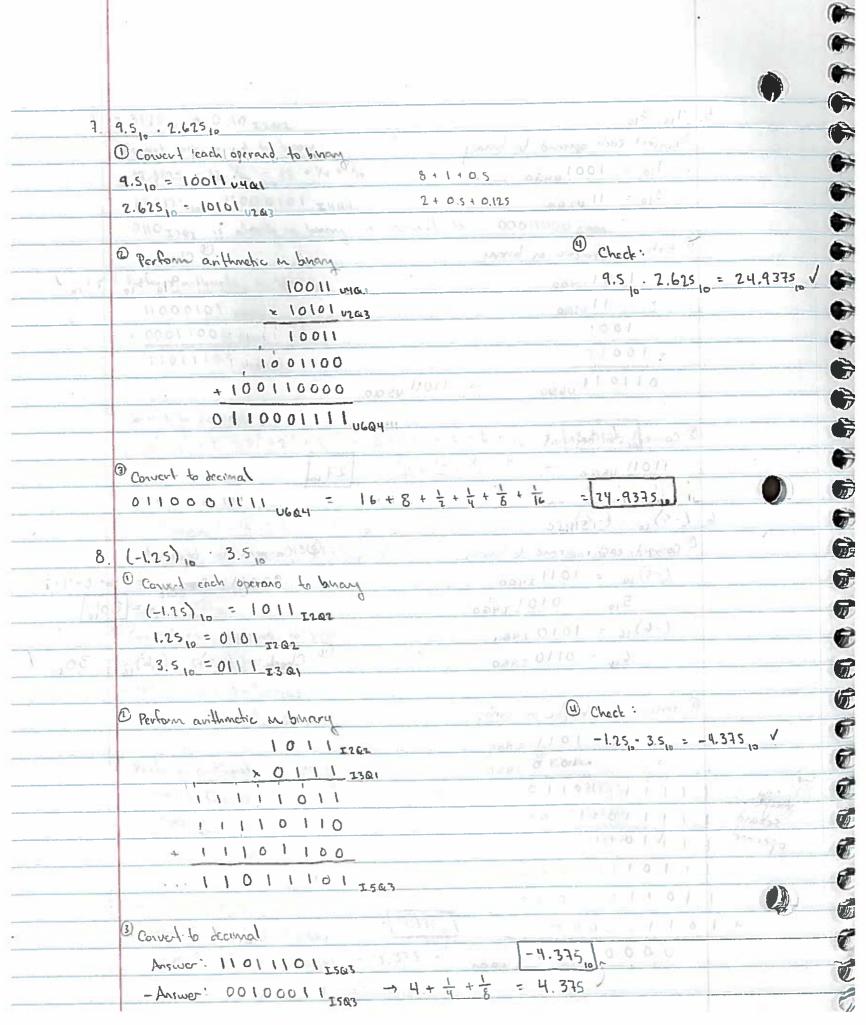
	HW3					
١.	91,0 + 66,6					
	1 Convert each operand to burne					
	9110 = 6001011011 (ugao) 91-64 = 7	27 27-16=11 11-8=3 3-2=1 1-				
	C616 = p011000110 (120) C16 = p11	100 610= 001/0				
A.						
	@ Perform arithmetic in binery					
	6001011011					
	+6011000110					
	6100100001 (uqQo)					
- ((3)					
	3 Convert to deciment					
	28 + 25 + 20 = 256 + 32 + 1 = 289					
	ω .	2 45				
	(P Check					
	9110 -1 already : 1 base 10	d 198				
	C616 -> 12-16' + 6.16° = 172 + 6 = 19810	+ 691				
		1269				
2	118 - 1110					
	10 Convert each operand to binary					
	118 = 6001001					
	110 = p 001011					
		it where				
(Perform avilhnetic in binary					
	6001001					
	+ 6110101					
	6111110 2's conflerent; 6-6	t integer				
G	3) Convert to Lecimal					
	Answer: 111110 [-2]0]					
	- Answer 000010 -> 2)					
	0000.0					

D)

(4)

	SWR	
3. 12.3125 to + 0110 IZQZ	20 1 1 J	
Convert each operand to broany	on id is brough son from F	
12.3125 = 12 5/10 = 12 + 1/4 + 1/14	(nepu) 110110100 d alf	
12.3125 10 = 11000101 THQH	(00,00) 071000/10d = 2000	
0110 Izez is already in binary -1 co	wert to 00011000 IHQH	
3	sured a selection while	
2) Perform withmetic in binony	11011000	record to the
11000101 z404	0/10001101-	
+ 00011000 1404	(0010) 1 2 2 0 1 2 0 1 8	
11011101 IYAY		
	limited of leaves &	
	A TELEVISION - LEASE - L	
23+22+20+21+2-2+2-1= 8+4	+1+ = + + + + = 13.812510	
	25.25 10	
1 Check:	citing and the	
0110 1202 = 20 + 2-1 = 1.5	and the second of the second o	
P.1 C 1	and the same of the same	
$0110_{12Q2} = 2^{0} + 2^{-1} = 1.5_{10}$ $12.3125_{10} + 1.5_{10} = 13.8125_{10} $		
12.3125,0 + 1.5,0 = 13.8125,0 /	2 11 = 11.	
12.3125 ₁₀ + 1.5 ₁₀ = 13.8125 ₁₀ V		
12.312510 + 1.510 = 13.812510 V 1. 5.7510 - 7.12510 D Convert rach operand to binary	2 11 = 511 5	
12.3125 ₁₀ + 1.5 ₁₀ = 13.8125 ₁₀ V 1. 5.75 ₁₀ - 7.125 ₁₀ D Convert rach operand to binary 5.75 ₁₀ = 0101110 T403	1 1 5 11 5 2 1 1 5 11 5	
12.3125 ₁₀ + 1.5 ₁₀ = 13.8125 ₁₀ V -1. 5.75 ₁₀ - 7.125 ₁₀ D Convert rach operand to binary 5.75 ₁₀ = 0101 110 T403 7.125 ₁₀ = 0111 00 T403	100100 d = All 110100 d = All 1101000 d = All 1101000 d = All 1101000 d = All 1101000 d = All 11010000 d = All 110100000 d = All 110100000 d = All 11010000000000000000000000000000000	
12.3125 ₁₀ + 1.5 ₁₀ = 13.8125 ₁₀ V -1. 5.75 ₁₀ - 7.125 ₁₀ D Carverl rach operand to binary 5.75 ₁₀ = 0101110 Tyoz	100100 d = All 110100 d = All 1101000 d = All 1101000 d = All 1101000 d = All 1101000 d = All 11010000 d = All 110100000 d = All 110100000 d = All 11010000000000000000000000000000000	
12.3125 ₁₀ + 1.5 ₁₀ = 13.8(25 ₁₀ V -1. 5.75 ₁₀ - 7.125 ₁₀ D Convert rach operand to binary 5.75 ₁₀ = 0101 110 T403 -7.125 ₁₀ = 1000 111 I403	100100 d = All 110100 d = All 1101000 d = All 1101000 d = All 1101000 d = All 1101000 d = All 11010000 d = All 110100000 d = All 110100000 d = All 11010000000000000000000000000000000	
2) Perform anthretic in Sincry	100100 d = 11. 5 100100 d = 11.	
12.3125 ₁₀ + 1.5 ₁₀ = 13.8125 ₁₀ V -1. 5.75 ₁₀ - 7.125 ₁₀ D Convert rack operand to binary 5.75 ₁₀ = 0101 110 T403 -7.125 ₁₀ = 0111 001 T403 -7.125 ₁₀ = 1000 111 T403	100100 d = 11. 100100 d = 11. 100100 d = 11.	
12.3125 ₁₀ + 1.5 ₁₀ = 13.8125 ₁₀ V -1. 5.75 ₁₀ - 7.125 ₁₀ D Convert rach operand to binary 5.75 ₁₀ = 0101 110 T403 -7.125 ₁₀ = 1000 111 I403 -7.125 ₁₀ = 1000 111 I403	O Check // 5 - 15.750	
12.3125 ₁₀ + 1.5 ₁₀ = 13.8125 ₁₀ 1. 5.75 ₁₀ - 7.125 ₁₀ 1. 5.75 ₁₀ = 0101 110 Tyer 2. 125 ₁₀ = 0111 001 Tyer -7.125 ₁₀ = 1000111 Tyer 2. Perform anthretic in finant 0101110 Tyer + 1000111 Tyer 1110101 Tyer	© check 47.9/25 -15.750 1.375	
12.3125 to 1.5 to = 13.8125 to V 1. 5.75 to = 7.125 to D Convert rack operand to binary 5.75 to = 0101 110 Tyes 7.125 to = 0111001 Tyes -7.125 to = 1000111 Tyes 2 Perform anthmetic in binary 0101110 Tyes + 1000111 Tyes 1110101 Tyes Convert to decimal	O Check // S - 15.750 - 15.750 /	
12.3125 to 1.5 to = 13.8125 to V -1. 5.75 to - 7.125 to D Convert rach operand to binary 5.75 to = 0101 110 Tyes 7.125 to = 0111 001 Tyes -7.125 to = 1000 111 Tyes 2 Perform anthretic in finary 0101110 Tyes 1110101 Tyes 1110101 Tyes Convert to decimal	1001000 d all 1001000 d all 1001000 d all 1001000 d all 101000 d all 1010000 d all 101000 d al	

			C .	
1				9
3	0	**		
		910.310		
		Oconvert each operand to binary		
*		910 = 1001 0400		
8		3 10 = 11 UZQO		
		@ Perform anthmetic in brong	(9 Check
3_	ta e deri W bill	1001 11400	h T	910-310-27101
		× 11 0760		10 10
2		1001		
2		+ 10010		
9 ≫		011011 u600 - 11011 y50	.0	
9			1	
9		3 convert to drawal		
3		11011 usao -> 24 +23 +21 +2°	= 27,0	18
			70	
	6	(-5)10 . (-6)16		
3		Convert each operand to binery	3 Carvert to	decimal
3		(-5)10 = 1011 IHQO .		0 = 16+8+4+2
•		510 = 0101 IHGD		= 30,0
3		(-6)16 = 1010 I400		2 1
3		616 = 0110 THEO	(4) Check: (-	5), (-6), = 30,0 1
3		@ Perform arithmetic in blong	The state of the s	
3		1011 T480	who was a second a second as a	
3		× 1010 tueo	1 100	
3	negative	1111110110) (the officer of the control of the co
3	cceno 1	1111011066		
3	observed 1	1110110006		
3		1101100000		المراقع المستقد المراقع المستقد والمراقع المستقد والمراقع المراقع والمستقد المراقع والمراقع والمراقع والمراقع والمراقع
		1011000000		
8-	+		1847	
		0 0 0 0 1 1 1 1 0 18Q0		
491				



-5.6875,0 in single-precision fleating point format				
N The state of the				
To broang:				
5.6875 -> 1011011				
1011011 U106 x 22				
Floating point: (-1) sign (1. fraction) * 2				
Exponent: 10000100 + 128+4=132				
Float: 1100001000100010000000000000000000000				
sign exponent significand				
0xC2360000				
0:2E4B68DF as single-precision flooding point				
0010 1110 0100 10110 110 1 000 11011 111				
sign exp significand				
(-1)° (1.10010110110100011011111 U1023) · 2				
(-1)° (1.100101101101000110111111 01023) · 2				
$\left(1+\frac{1}{2}+\frac{1}{16}+\frac{1}{64}+\frac{1}{128}+\frac{1}{512}+\frac{1}{1024}+\frac{1}{2^{12}}+\frac{1}{2^{16}}+\frac{1}{2^{16}}+\frac{1}{2^{17}}+\frac{1}{2^{19}}+\frac{1}{2^{21}}+\frac{1}{2^{21}}+\frac{1}{2^{21}}+\frac{1}{2^{21}}\right)\cdot 2^{-\frac{1}{2}}$				
4.625 x 10-"				