For the control signal, because Alu wants to calculate
the subtraction. So binverx is setted to 1. Therefore "01".
For the output of the result, it will be sexted to less
which is "11". Therefore, ainvery, binvery: "01", operation "11".
The signal values for gly instruction are "0111".

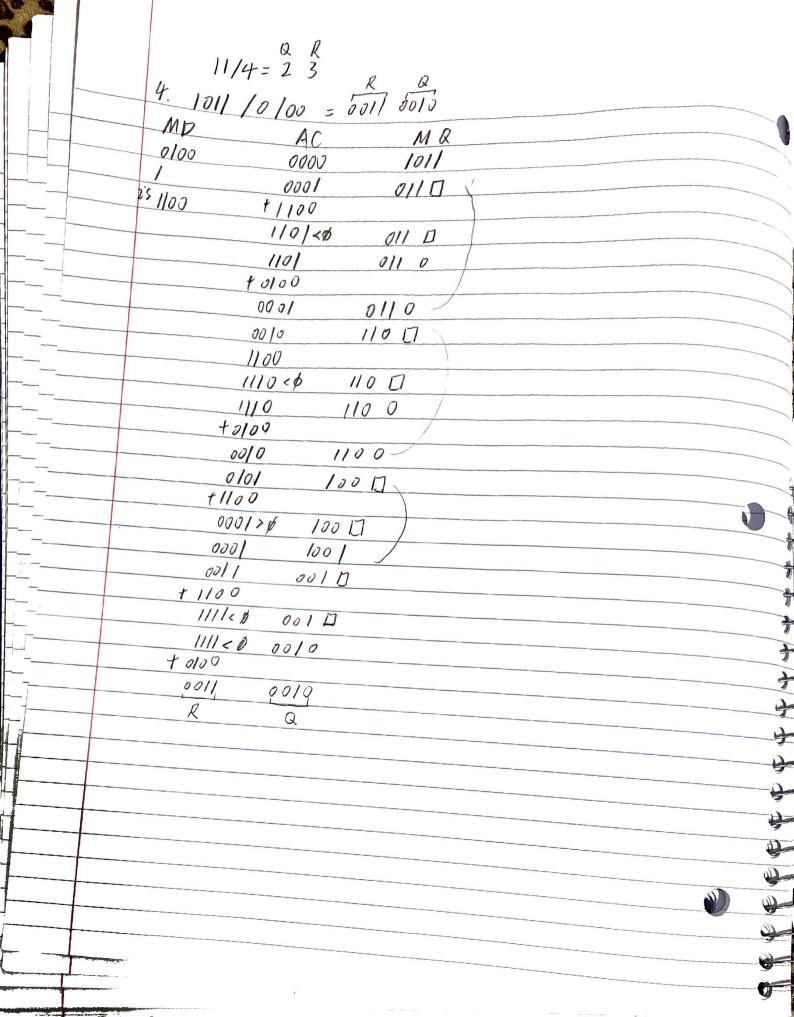
888888

	2.	0/0/	X	1110	_	,	29
				1110	= 01	W	0110
- 1							

11-					
MD	AC	MR			8 1
0101					
	0000	1110	1		
	0000	1110		1 .	
,	0000	1116	1 1		
1	0101			1 ,	
1 1	0/01	011		, , ,	
	0010	1011		1	1
	0101				
	0/11	1011			
	0011	101			
2 18	0101	i ii	,i	1.	
1	1000	1101	4		1,
	0)00	-0110			۹

Marie Marie Marie Marie Marie Marie

3. (a) 10/00/11/01[0] = 413,0 256+128+32 +(-4)+2+(-1)=41310 (b)-[1010\* 0101] = 1110 0010 MD AC MQ 12-1 10/0 0000 0101 + 0110 0101 t . . !
0110
2's complement 0101 0110 0011 +1010 0010 1101 1110 + 0110 0100 1.001 0010 1010 0100 1100 1710 0010 Product: 1110 0010



b. The reason why non-restoring division algorithm achieves higher efficiency is because the non-restoring division only executes if CAC-O) then AC < AC+MD on it's last step while restoring division executes that on every steps of it's caculation.