DANINDYA PUPUT MULIANA PUTRI L200150123 KELAS C

Lakukan operasi perkalian secara biner (4 bit) antara

a. $-12 \times 10 = 0100 \times 1010$

A	Q_0	Q_1	M	Count
0000	0100	0	1010	4
0000	0010	0	1010	4
0000	0001	0	1010	3
A = A + (-M) = 0000 + (-1010)				
= 0000 + 0110 = 0110				
0110	0001	0	1010	3
0011	0000	1	1010	2
A = A + M = 0011 + 1010 = 1101				
1101	0000	1	1010	2
1110	1000	0	1010	1
1111	0100	0	1010	1
1111	1010	0	1010	1
1111	1101	0	1010	0
Hasil = 1111 1101				

b. $12 \times -10 = 1100 \times 0110$

A	Q_0	Q_1	M	Count	
0000	1100	0	0110	4	
0000	0110	0	0110	4	
0000	0011	0	0110	3	
A = A + (-M) = 0000 + (-0110)					
= 0000	= 0000 + 1010 = 1010				
1010	0011	0	0110	3	
1101	0001	1	0110	2	
1110	1000	1	0110	1	
A = A + M = 1110 + 0110 = 10100					
0100	1000	1	0110	1	
0010	0100	0	0110	0	
$Hasil = 0010\ 0100$					

c. $-12 \times -10 = 0100 \times 0110$

A	Q_0	Q_1	M	Count
0000	0100	0	0110	4
0000	0010	0	0110	4
0000	0001	0	0110	3
A = A + (-M) = 0000 + (-0110)				
= 0000 + 1010 = 1010				

1010	0001	0	0110	3
1101	0000	1	0110	2
A = A + M = 1101 + 0110 = 10011				
0011	0000	1	0110	2
0001	1000	0	0110	1
0000	1100	0	0110	1
0000	0110	0	0110	1
0000	0011	0	0110	0
Hasil = 0000 0011				