(-1) Compute the Middletication of (-14) and (-5) using booth Algorithm -14 =) 2's complement of 01110

1's complement is 1000' 10010 .. M = -M = 01110 matiputer (Q)= 2's compliment of D0101 Q =

Dr.) Costi much

^	A	Q	190	Steps
5	00000	11011	0	Initialization 9,90=10, A-JA-M
4	01110	4666	0	ASR Adgo, n-)n-1
3	00011	10110	1	9,90=11 JASR AQ98
	10010	10110	1	9,90=01, A-)A+M
2	01110	11011	0	ASR, Adgo, n-) n-1 9,90=10, A-) A-M
,	01000	01101		ASR A 990, 1-)1-1
0	00100	00110		7,90=11, ASR AP90 n-1 n-1

$$AQ = \frac{0001000110}{1\times2^{6} + 1\times2^{2} + 1\times2^{1}}$$

$$= \frac{70}{1\times2^{6} + 1\times2^{2} + 1\times2^{1}}$$

$$= \frac{70}{1\times2^{6} + 1\times2^{2} + 1\times2^{1}}$$

$$15 \rightarrow 1111(M)$$
 $12 \rightarrow 1100(Q)$

_ ^	C	A	10				
			10				
1	0	0000	1100				
	0	0000	0110	ASR CAG			
2	0	0000	0011	ASR CA9			
3	0	1111	0011	A= A+M			
4	00	0111	1001	ASR CAQ			
			1001				
	6	1011	0100	A=A+M			
	,	/	/	ASR CAQ			
(16+32+128) + 4 = 160 + 16+ 4							
= 180 (An)							
15 x 11 > 120							

15 x12= 180