Use booths algorithm to compute 6 \star -2

```
Q <- 0110
M <- 1110
M_inverse <- 0010
M_inverse is used to calculate A - M</pre>
```

A	Q	$Q_{-}-1$	С	Operation
0000	0110	0	4	ASHR(A, Q, Q -1) c
0000	0011	0	3	A <- A - M
0010	0011	0		ASHR(A, Q, Q -1) c
0001	0001	1	2	ASHR(A, Q, Q -1) c
0000	1000	1	1	A < -A + M
1110	1000	1		ASHR(A, Q, Q -1) c
1111	0100	0	0	Complete

Answer 1111 0100

Checking Work Complement of answer = 00001100 = +12 Therefore, answer = -12, which is correct