

SOP @ Mar

\bar{B}	B
0	1
0	0
1	1

$$A \rightarrow 1 \quad 1 \quad 1 \quad 1$$

$$f = A\bar{B} + AB \\ = A(\bar{B} + B) \\ = A$$

Un-Signed
0 \rightarrow 255

$$\begin{array}{ccccccccc} 2^6 & 2^5 & 2^4 & 2^3 & 2^2 & 2^1 & 2^0 \\ 1 & 0 & 0 & 0 & 1 & 0 & 1 \\ 2^6 + 2^5 + 2^3 + 2^0 \\ = 139_{10} \end{array}$$

Signed
-128 \rightarrow 127

$$\begin{array}{ccccccccc} 2^6 & 2^5 & 2^4 & 2^3 & 2^2 & 2^1 & 2^0 \\ 1 & 1 & 0 & 1 & 1 & 0 & 0 \\ - = -2^6 + 2^5 + 2^3 + 2^1 \\ = -42_{10} \end{array}$$

1's complement: flip all bits $0111 \rightarrow 1000$

2's complement: flip all bits then add 1
 $0111 \rightarrow 1001$

POS @ Mar

$$Q = \overline{\{0, 1, 4, 8, 9, 12, 15\}}$$

AB	00	01	10	11
00	0	0	1	1
01	0	1	0	1
10	1	0	1	0
11	0	1	0	0

AB	00	01	10	11
00	0	0	1	1
01	0	1	0	1
10	1	0	1	0
11	0	1	0	0

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01	0	1	0	1
10	1	0	1	0
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