

$$A = 48 = (0011\ 0000)_2 = (30)_{16}$$

$$B = 92 = (0101\ 1100)_2 = (5C)_{16}$$

Function	expected	result	
sum(a,b)	140	$8C_{16} = (140)_{10}$	
diff(a,b)	-44	$D4_{16} = (-44)_{2's\ complement}$	
!a	1100 1111	$CF_{16} = 1100\ 1111$	
!(a&b)	1110 1111	$EF_{16} = 1110\ 1111$	
!(a b)	1000 0011	$83_{16} = 1000\ 0011$	
A & b	0001 0000	$10_{16} = 0001\ 0000$	
A ^ b	0110 1100	$6C_{16} = 0110\ 1100$	
A b	0111 1100	$7C_{16} = 0111\ 1100$	
!(a ^ b)	1001 0011	$93_{16} = 1001\ 0011$	

