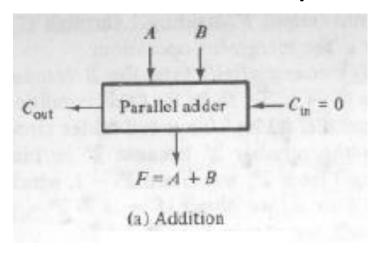


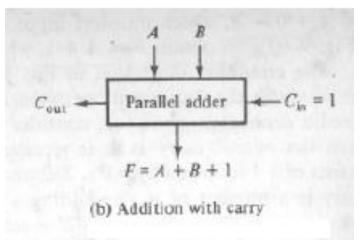
To perform **arithmetic operations** by the help of parallel adder, just perform **'plain addition'** among the input. To perform **logical operations** by the help of a parallel adder just perform **'XOR'** operations among the inputs.

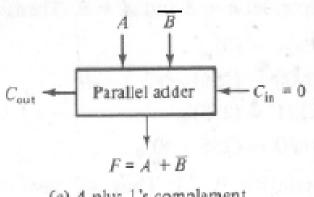
Logic Operations (XOR operation)

S ₂	S ₁	So	Х	Υ	Z=C _{in}	$F=x\oplus y$	Operation
1	0	0	A+B	0	0	A OR B	OR
1	0	1	Α	В	0	$A \oplus B$	XOR
1	1	0	$A + \overline{B}$	\overline{B}	0	A AND B	AND
1	1	1	А	1	0	\overline{A}	NOT

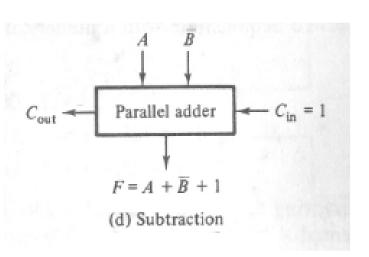
Arithmetic operations (Plain addition)

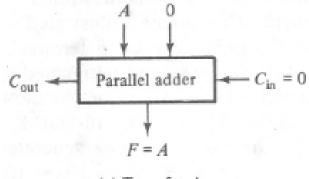






(c) A plus 1's complement of B





(e) Transfer A

