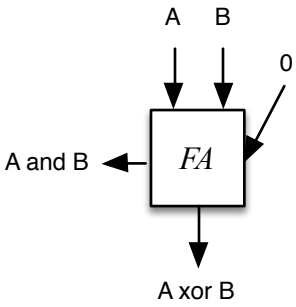
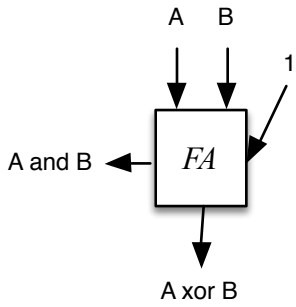
1) Uma entrada a 0



S=A xor B xor 0= A xor B XOR-2

Cout=AB+A0+B0=AB AND-2

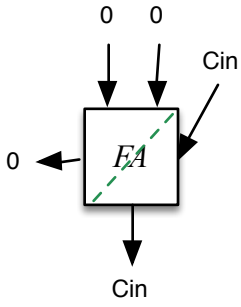
2) Uma entrada a 1



S=A xor B xor 1= (A xor B)' XNOR-2

Cout=AB+A1+B1=AB+A+B=A+B OR-2

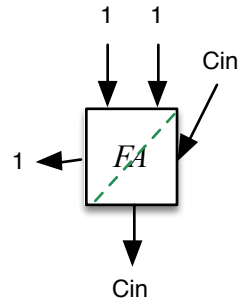
3) Duas entrada a 0



S=0 xor 0 xor Cin= Cin Follower

Cout=00+0Cin+0Cin=0 '0'

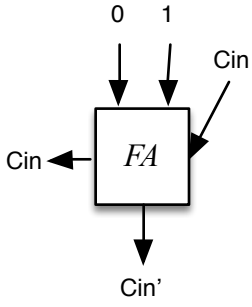
4) Duas entrada a 1



S=1 xor 1 xor Cin= Cin Follower

Cout=11+1Cin+1Cin=1 '1'

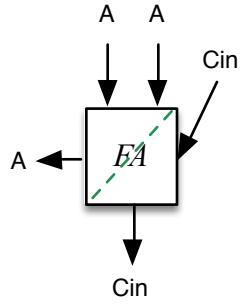
5) Uma entrada a 0 e outra a 1



S=0 xor 1 xor Cin= Cin' Inverter

Cout=01+0Cin+1Cin=Cin Follower

6) Duas entradas iguais



S=A xor A xor Cin= Cin Follower

Cout=AA+ACin+ACin=A(1+Cin)=A Follower