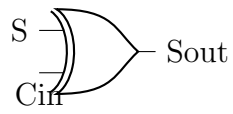# 1 Half-adder

For a half adder we get an exclusive OR gate for the sum and an AND gate for the carry. for a full adder, we get two half adders and an OR gate.

Cout

S
Cin

Sout

C

A
B

S
S
Cin