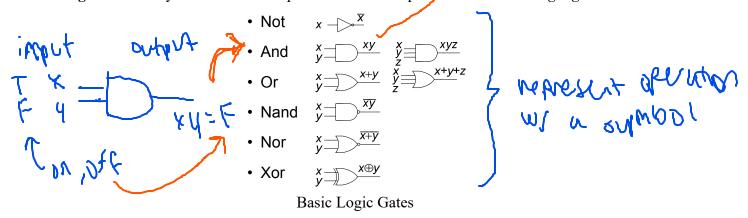
PROBLEM OF THE DAY 7c Logic Gates and Circuits

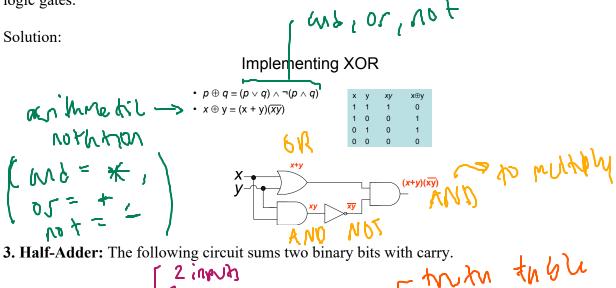
(Material from http://homepage.cs.uiowa.edu/~hzhang/c19/ch01c.pdf)

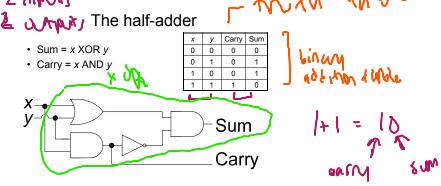
1. Logic Gates: Physical devices that perform Boolean operations are called logic gates.



2...Circuits: Logic gates can be combined into a *circuit* to perform more complicated Boolean expressions.

Example: Build a circuit to perform the Boolean operation Xor using only And, Or, and Not logic gates.





Exercise: Build a circuit to compute the Boolean expression $(x + \overline{y} \cdot (x + \overline{z}))z$.