

# NAND gate

- NAND gates are the basis for all circuits (not always, but we can assume it for now)
- We can use NAND gates to build every other type of logic gate
- NAND meaning: "not AND"

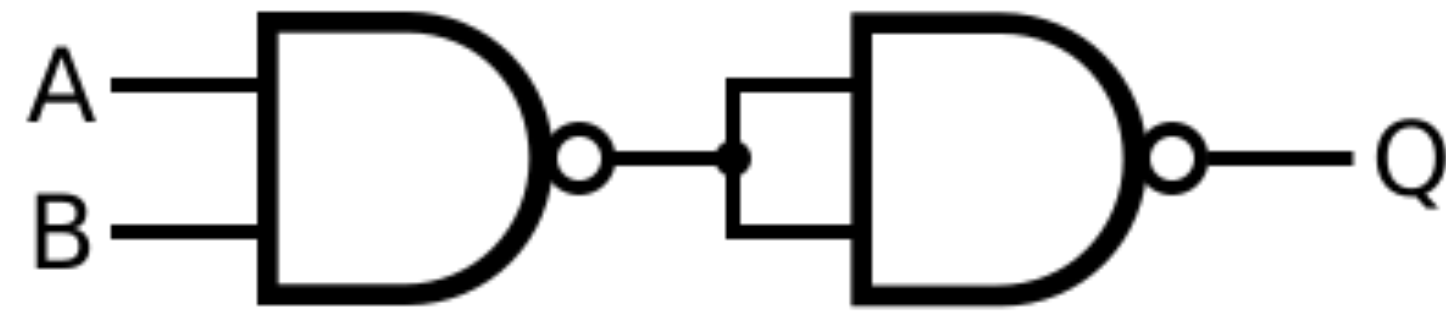


NAND gate

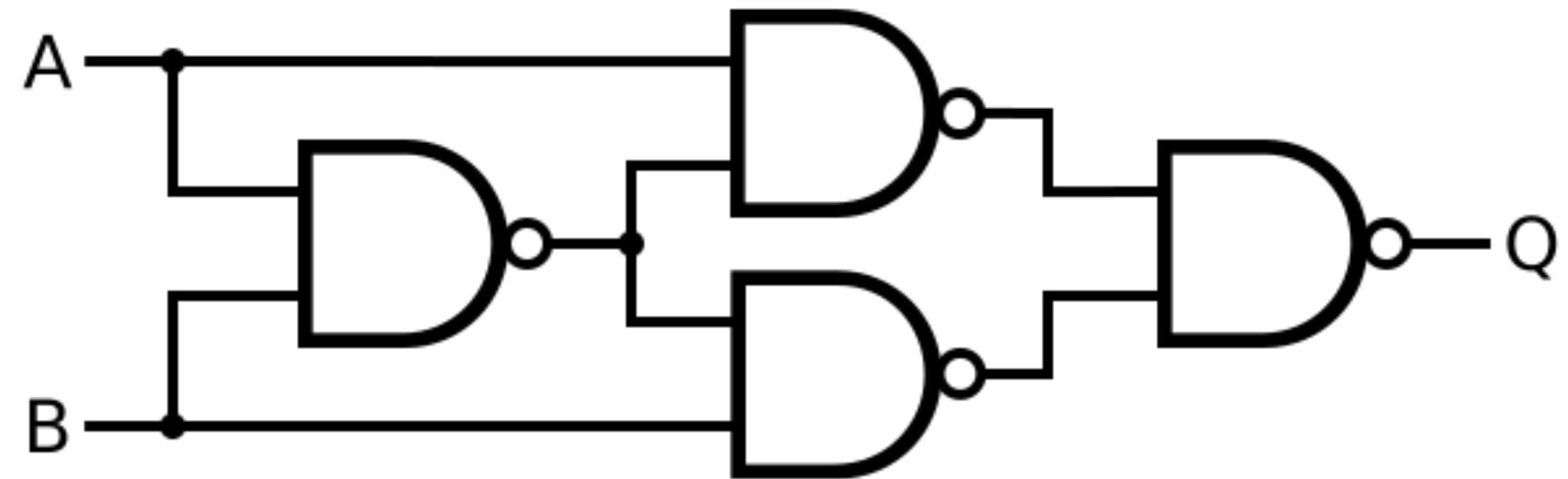
P	Q	P nand Q
TRUE	TRUE	FALSE
TRUE	FALSE	TRUE
FALSE	TRUE	TRUE
FALSE	FALSE	TRUE

# NAND is all you need

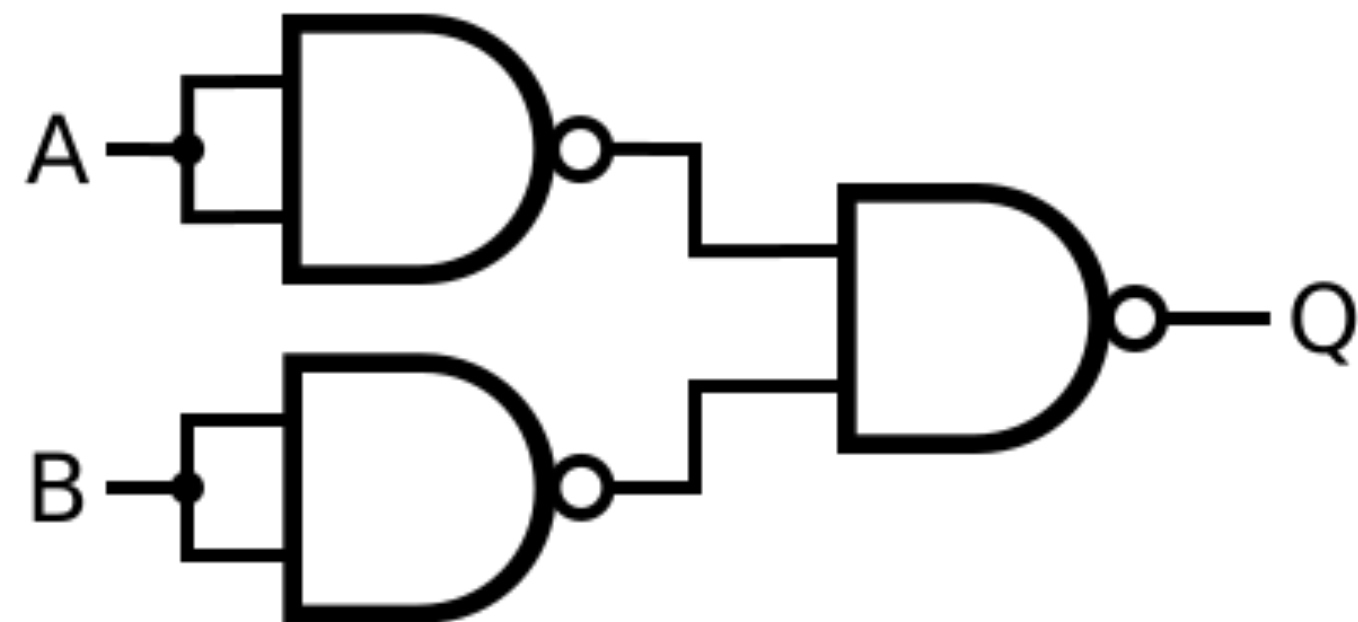
Can make all other gates from NAND



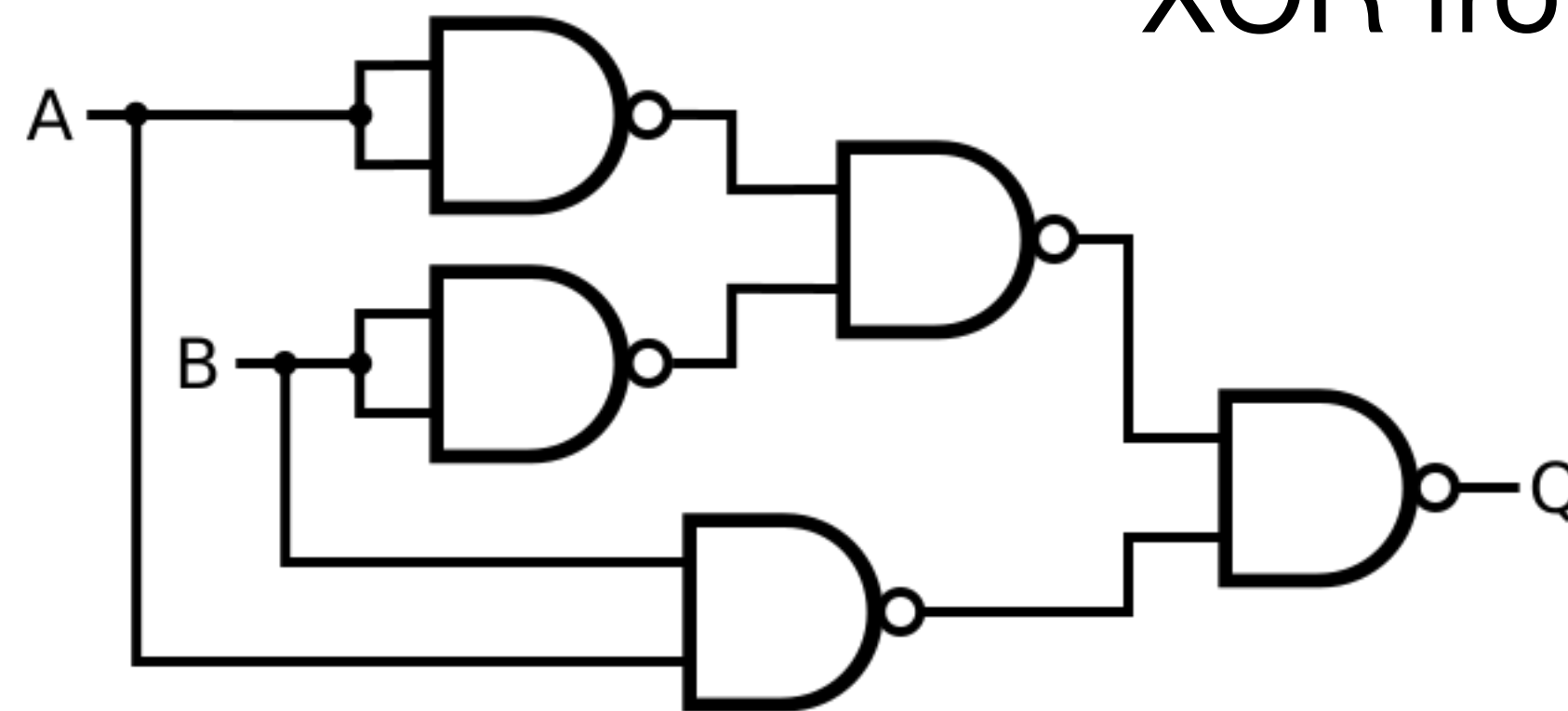
AND from NAND



XOR from NAND



OR from NAND



XNOR from NAND



NOT from NAND