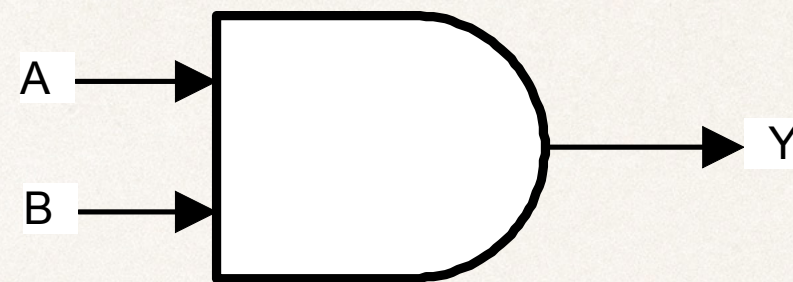
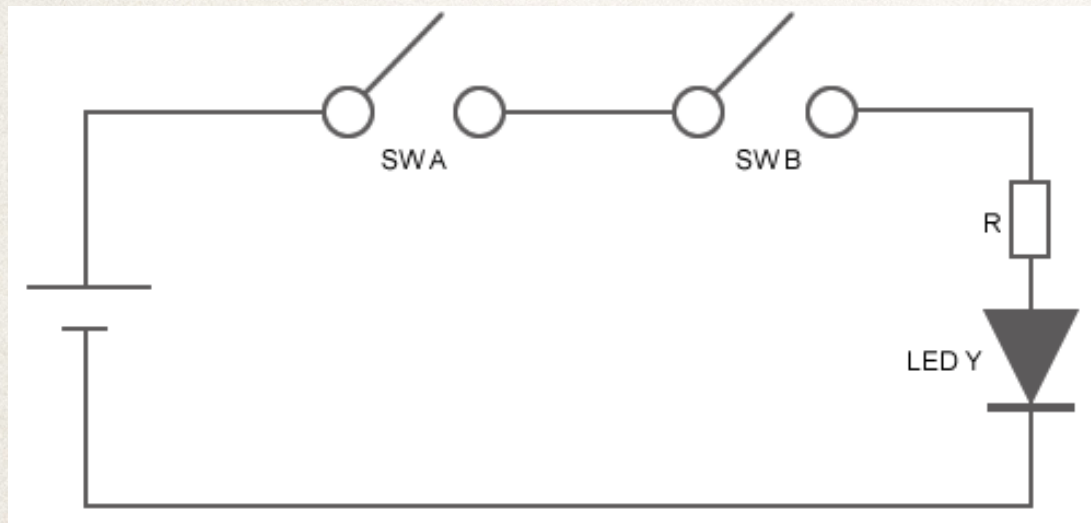
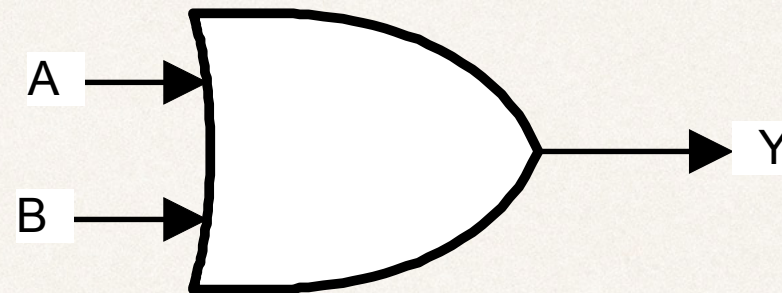
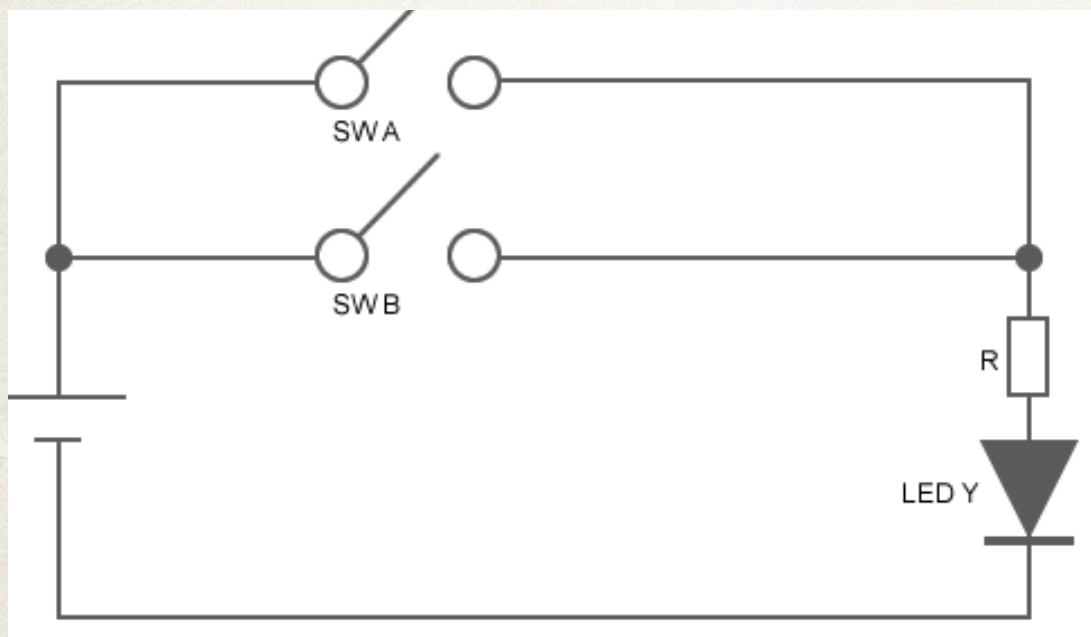


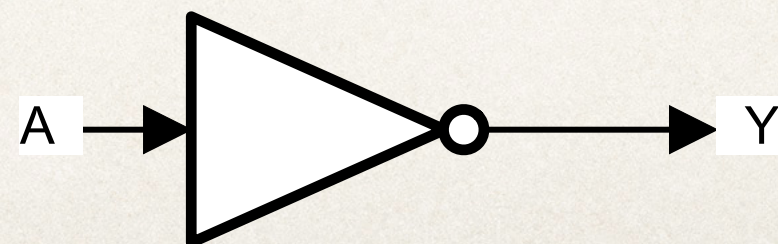
Logic Gates



AND gate



OR gate

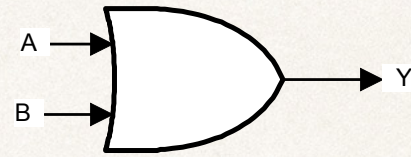


NOT gate

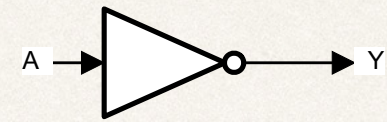
Logic Circuits and Formulas



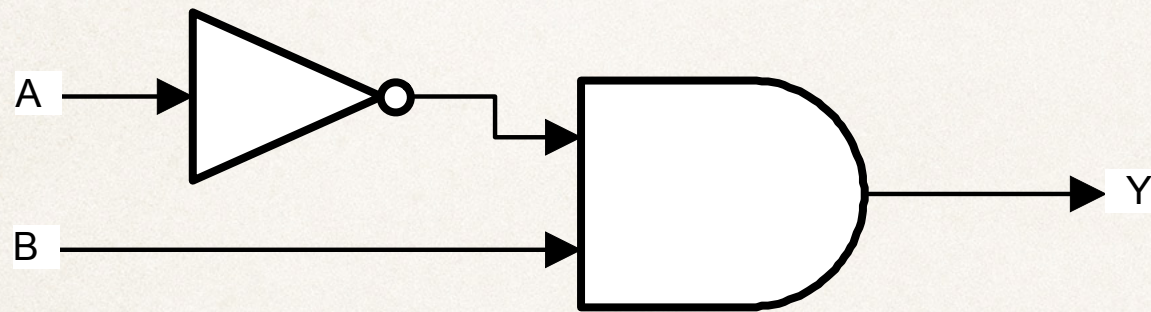
AND



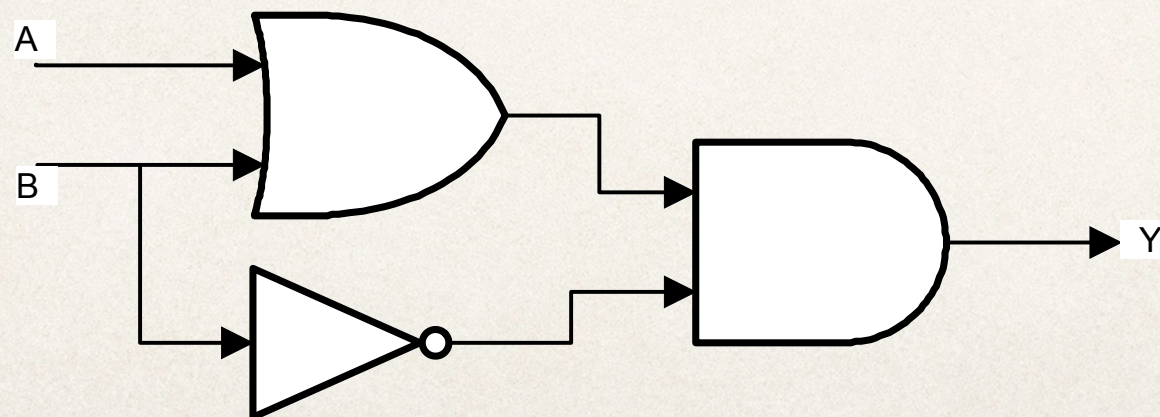
OR



NOT



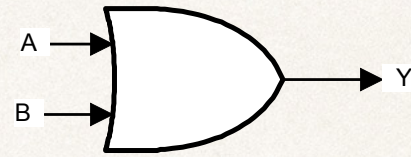
$$(\neg A) \wedge B$$



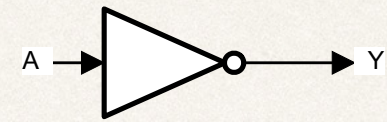
Logic Circuits and Formulas



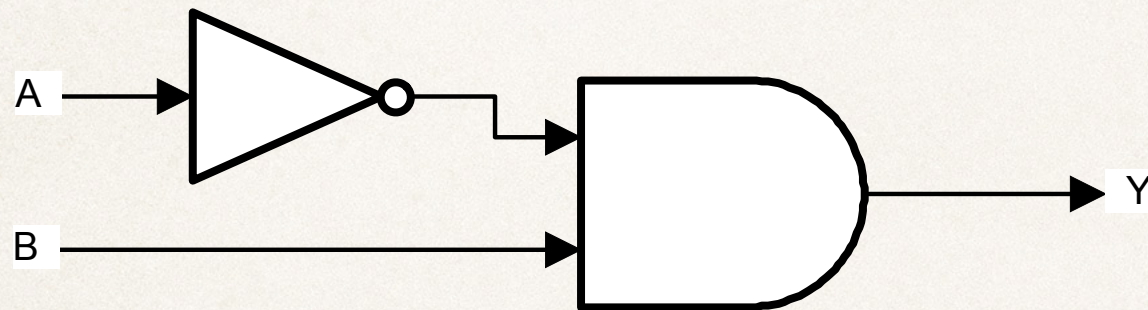
AND



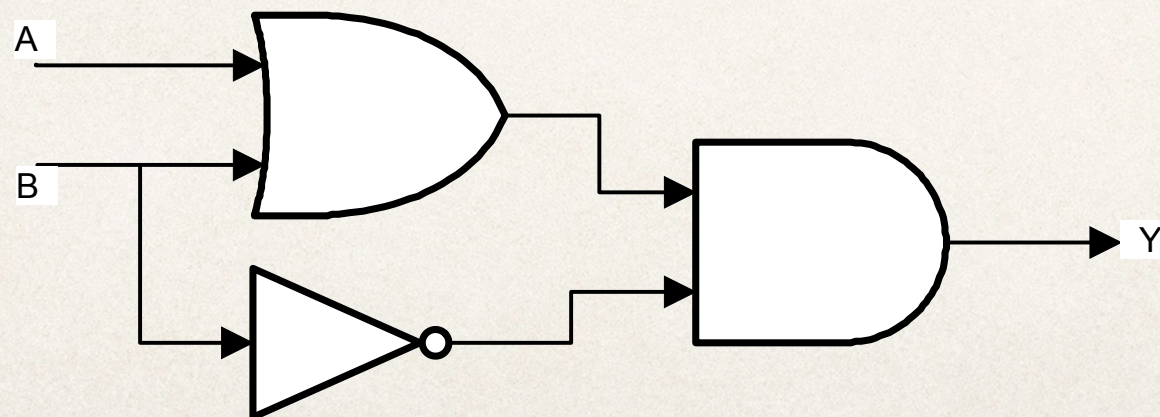
OR



NOT

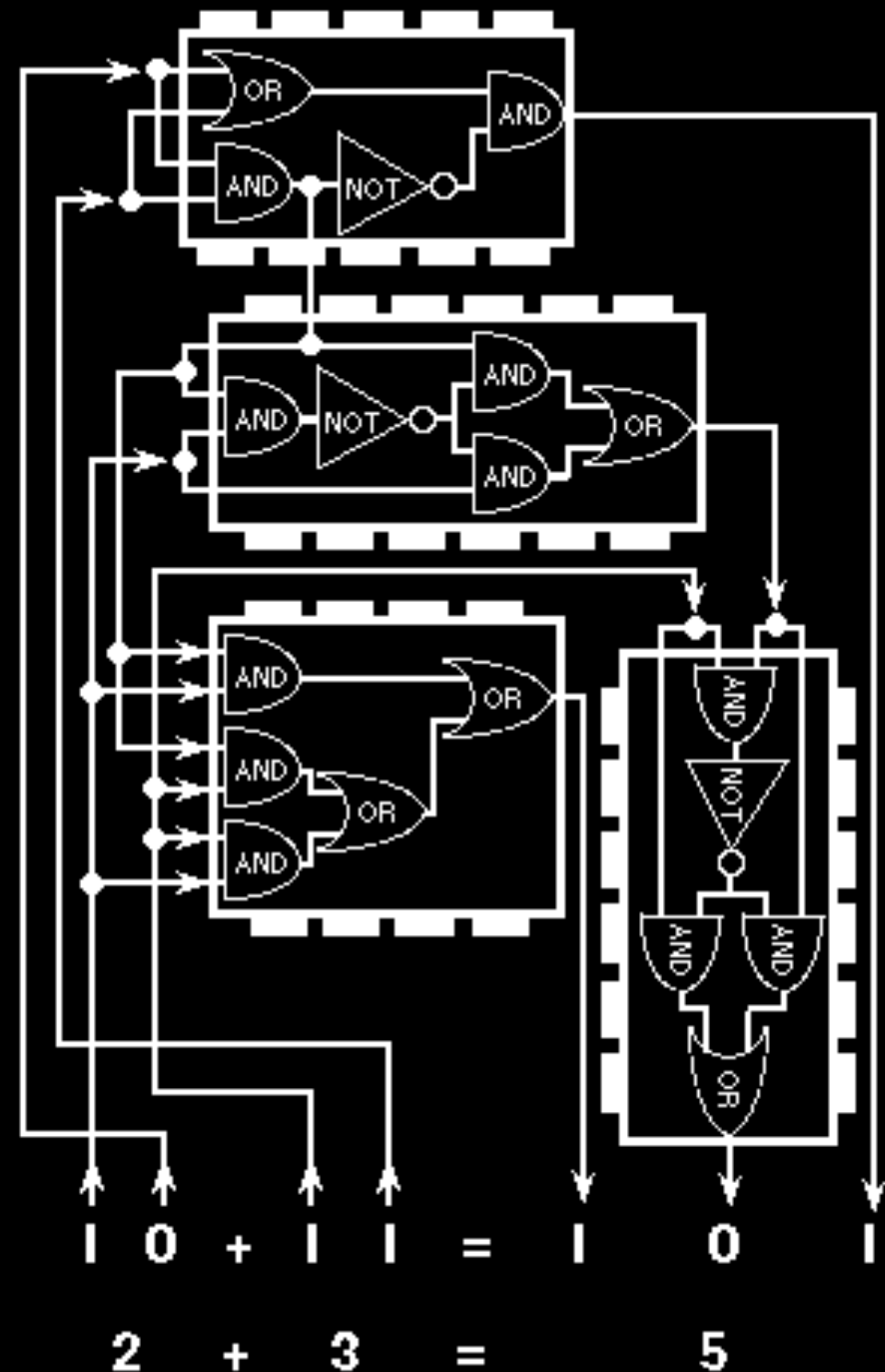


$$(\neg A) \wedge B$$



$$(A \vee B) \wedge (\neg B)$$

Adding 2+3



Two Standpoints: Language and Circuits

You can regard formulas as **statements capable of being true or false**, e.g. statements about how things are, who is guilty or innocent, etc.

You can also regard formulas as representing **circuits with inputs and outputs**. The inputs are the values (0 or 1) of the atomic formulas and the output is the value (0 or 1) of the complex formula.