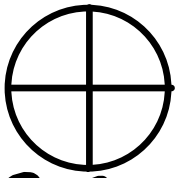
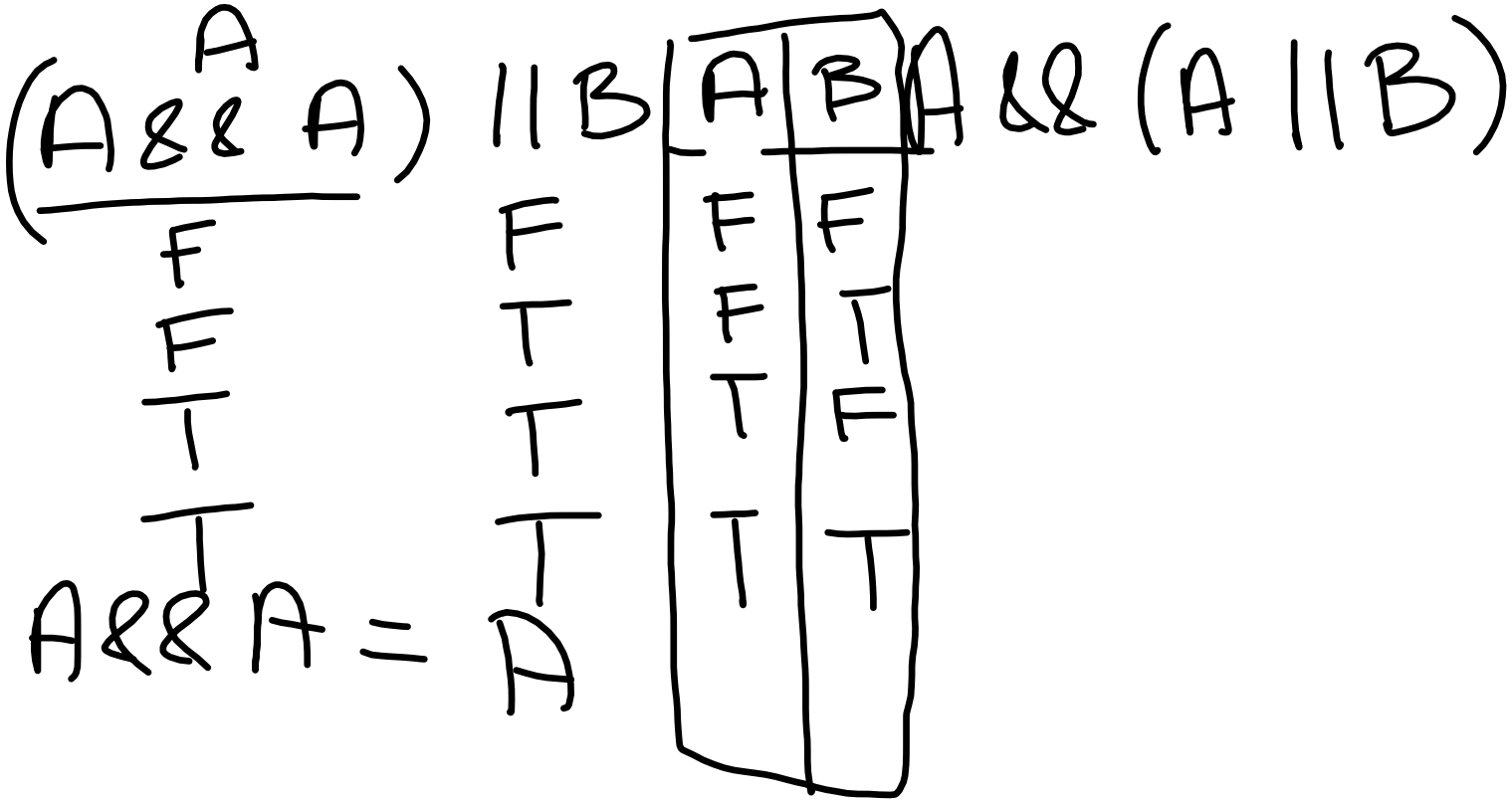
https://AllenCompSci.GitHub.io

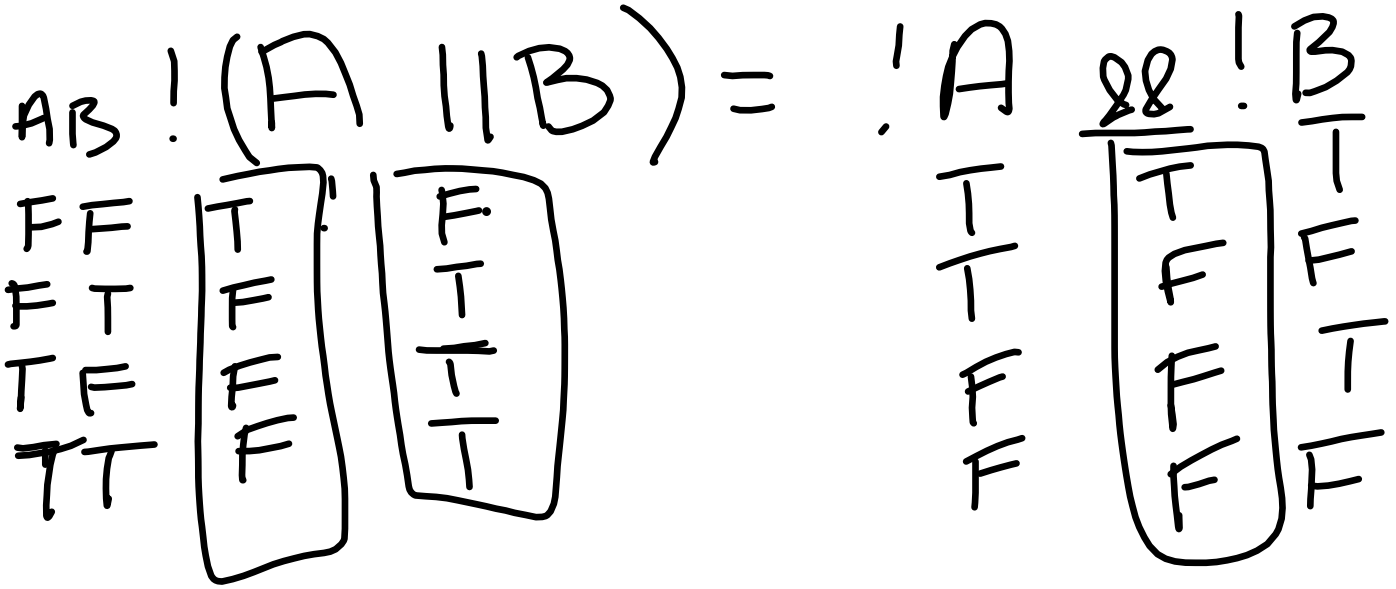
Symbol for XOR 

(A || B) && !(A && B)

Symbols for AND * &&

Symbols for OR + ||


A
(A && A) || B
F
F
T
T
A && A = A
A B A && (A || B)
F F F
F T F
T F T
T T T


AB !(A || B) = !A && !B
FF T F T F T
FT F T F F F
TF F T F F F
TT F T T F F

De Morgan's Law

$$!(A \,||\, B) = !A \,\&\&\, !B$$

$$!(A \,\&\&\, B) = !A \,||\, !B$$

$$!(!A \,||\, !B) \quad (C \,||\, D)\ C = !A,\ D = !B$$

$$A \,\&\&\, B$$

LOGIC

Simple sentences
that simply
state solutions