B K : B Knight
BN : B Knave
Op : Opposites

\[ B K \land (B S a y s \ S) \] \[ \rightarrow S \]

Hard to deal with general S

B K \rightarrow Op
AK \rightarrow BK

\[ A K \rightarrow Op \]

trans.

BN \land AN (N : Knave)

\[ Op \rightarrow (AK \land BN) \]
\[ (AN \land BK) \]

This is hard, and it cheats:
most of the
reasonings is in our heads.
when we decide:
choose the wif.

Really want to be
able to write:
If (X is a Knight)
and (X says Y)
then Y \rightarrow R

(P \land Q) \rightarrow R

How do we start with
a T be, and get
a wif for it?

P \land R \land \neg
\[ P \land T \land \neg \]
\[ F \land F \land F \]

Given any with W
these are log. equiv to it:
W \land (p \rightarrow p)
W \land (p \rightarrow p)
W \land W