



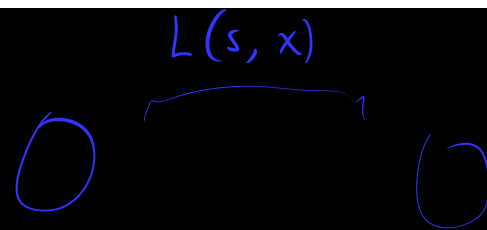
Person
✓
P

have Questions
✓
Q



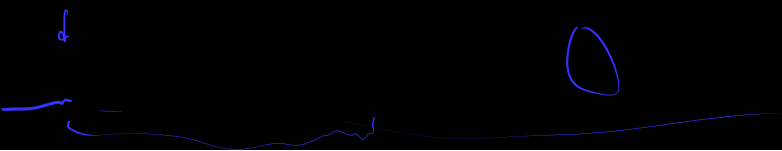
$$\underline{P \rightarrow Q} \wedge \underline{Q \rightarrow P}$$

I'm a person if and only if I have Questions
is the same as
is equiv to



$L(s, x) \rightarrow$

$$\forall x. Z(x) \rightarrow (\exists x. \text{...})$$



$$\exists t \in T. \neg \left(\forall p. \left(\neg B(p, t) \vee B(p) \right) \vee \right)$$

$$\left(\forall p \in P. \right) \vee \left(B(p) \right)$$

$\neg B(p, t)$

$$\neg \left(_ \vee _ \right)$$

$$\neg _ \wedge \neg _$$

$\exists t$

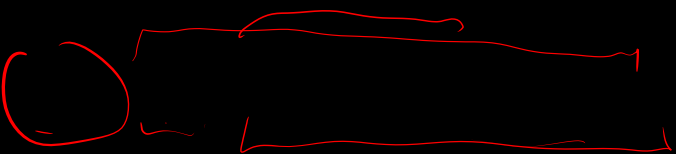
\vee

\exists

$$\forall x. (Z(x) \rightarrow \text{outside-zoo}) \wedge (\text{outside} \rightarrow \text{inside})$$

if two animals are each other, one is in zoo and one is out

one is in zoo if & only if one is outside



Every ^{student} has someone that they like.