



for all

main

$$\forall x \cdot P(x)$$

quantity

$$A \wedge B \wedge C \wedge D \wedge \dots$$

$$A \vee B \vee C \vee D \vee \dots$$

there exists

$$\exists x \cdot P(x)$$

quantifier

meaning

$$P(x) \text{ --- } x \text{ is a Professor}$$

all proof rules for props.

work for pred too

to prove $\forall x. P(x)$

→ prove $P(x)$ w/o using x

to prove $\exists x. P(x)$

→ pick the nicest x