first-order logic rules

universal elimination (∀E)

3. | $\forall x Px$
4. | Pa :∀E 3

Drop the $\forall x$ and replace the variable with a name.

variables: $u - z$
names: $a - t$

existential introduction (∃I)

3. | Fa
4. | $\exists x Fx$:∃I 3

Add an $\exists x$ and replace the name with a variable.

universal introduction (∀I)

3. | Ga
4. | $\forall x Gx$:∀I 3

Add an $\forall x$ and replace the name with a variable.

And follow this rule.

The name (on line 3) cannot be in the premises.