

PRAVILA PRIJELAZA ZA KVANTIFIKATORE

LEMA

Neka su A, B, C formule logike 1. reda, neka B ne sadrži slobodne nastupe varijable x . Tada vrijedi:

- 1) $\neg \exists x A \iff \forall x (\neg A)$
- 2) $\neg \forall x A \iff \exists x (\neg A)$
- 3) $(\forall x A \rightarrow B) \iff \exists x (A \rightarrow B)$
- 4) $(\exists x A \rightarrow B) \iff \forall x (A \rightarrow B)$
- 5) $(B \rightarrow \forall x A) \iff \forall x (B \rightarrow A)$
- 6) $(B \rightarrow \exists x A) \iff \exists x (B \rightarrow A)$
- 7) $(B \wedge \forall x A) \iff \forall x (B \wedge A)$
- 8) $(\forall x A \wedge B) \iff \forall x (A \wedge B)$
- 9) $(B \wedge \exists x A) \iff \exists x (B \wedge A)$
- 10) $(\exists x A \wedge B) \iff \exists x (A \wedge B)$
- 11) $(B \vee \forall x A) \iff \forall x (B \vee A)$
- 12) $(\forall x A \vee B) \iff \forall x (A \vee B)$
- 13) $(B \vee \exists x A) \iff \exists x (B \vee A)$
- 14) $(\exists x A \vee B) \iff \exists x (A \vee B)$
- 15) $(\forall x A \wedge \forall x C) \iff \forall x (A \wedge C)$
- 16) $(\exists x A \vee \exists x C) \iff \exists x (A \vee C)$