CS161 - Quiz 5

Started: Mar 3 at 5:19pm

Quiz Instructions

Question 1 — 1 pts

Any sentence in first-order logic can be expressed without the existential ∃ quantifier

- (●) True
- ( ) False

Question 2 — 1 pts

Which of the following is equivalent to the sentence $\forall x\ \exists y\ Likes\ (x,\ y)$?

- ( ) $\neg\exists x \forall y \neg Likes\ (x,\ y)$
- ( ) $\neg\exists x\ \neg\forall y\ Likes\ (x,\ y)$
- ( ) $\neg\forall x\ \exists y \neg Likes\ (x,\ y)$
- ( ) $\exists x \forall y\ Likes\ (x,\ y)$

Question 3 — 1 pts

Modus Ponens (MP) is a sound inference rule

- (●) True
- ( ) False

Question 4

1 pts

Resolving $R(F(y)) \vee \neg G(y)$ with $G(A) \vee S(w)$ gives

- ○ $S(F(A)) \vee R(F(A))$
- ○ $S(w) \vee R(F(A))$
- ○ None of the others
- ○ $S(y) \vee R(F(A))$
- ○ $S(A) \vee R(F(A))$

Quiz saved at 5:20pm

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