

Twenty-sixth lecture

● SOME MORE ON LOGIC

Semantic consequence $\Gamma \models p$

Formal proofs $\Gamma \vdash p$

natural deduction

Gödel's completeness theorem

Some axiom systems

groups, ordered sets, graphs

Peano's axioms

sets (Zermelo-Fraenkel)

Theories

consistency, completeness, axiomatizability

Gödel's incompleteness theorem

The compactness theorem

limitations

(non-standard models)