SF2736, Discrete mathematics, autumn 2015 Thu 17 December

Twenty-seventh and last lecture

Leftover:

Compactness theorem and

non-standard models

• STILL MORE ON LOGIC

Sets

Russell's paradox

Ordinals (and cardinals)

arithmetic Cantor normal form Goodstein's theorem

Axiom of choice

Banach-Tarski paradox Well-ordering principle Zorn's lemma transfinite recursion