

SLS4

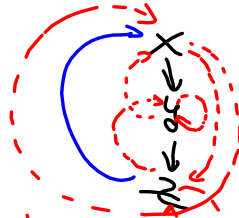
intuitiv:

logically

$$\forall x: \text{Emp}(x) \rightarrow \exists y: \text{superior}(x, y)$$

a model eg.

infinite chain!



- finite model, but: cycle

+ acyclic + transitivity:

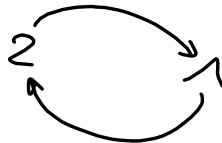
$\mathbb{D} \Rightarrow$ this is not a model

this is still a model

SLS5 standard model (=no additional equalities): \mathbb{N}

SLS5

\mathbb{Z}_3



finite model

$$1_3 + 1_3 = 2_3$$

$$2_3 + 2_3 = 4_3 = 1_3$$

"nonstandard-model"

Sl 67



$\forall x : \text{grandfather}(f^n(x), f^{n+2}(x)) \mid n \in \mathbb{N}_0$

Sl 73:

