

## downward Lowenheim-Skolem theorem

 ${\bf Canonical\ name} \quad {\bf Downward Lowenheim Skolem Theorem}$ 

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Owner Evandar (27) Last modified by Evandar (27)

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Author Evandar (27) Entry type Theorem Classification msc 03C07 Let L be a first order language, let  $\mathcal{A}$  be an L-structure and let  $K \subseteq \text{dom}(\mathcal{A})$ . Then there is an L-structure  $\mathcal{B}$  such that  $K \subseteq \mathcal{B}$  and  $|\mathcal{B}| \leq \text{Max}(|K|,|L|)$  and  $\mathcal{B}$  is elementarily embedded in  $\mathcal{A}$ .