42 Prove \neg 7: *null*.

After trying the question, scroll down to the solution.

This proof starts with the negation of what we want to prove.

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	7: null	size
\Rightarrow	$\phi 7 \le \phi null$	size axioms; 7 is an element
=	$1 \leq 0$	conjoin direction law
=	$1 \le 0 < 1$	transitivity
=	1 < 1	irreflexivity
=	\perp	· · · · · · · · · · · · · · · · · · ·

So the first line is an antitheorem, hence $\neg 7$: *null* is a theorem.