381 (rulers) Rulers are formed as follows. A vertical stroke | is a ruler. If you append a horizontal stroke - and then a vertical stroke | to a ruler you get another ruler. Thus the first few rulers are |, |-|, |-|-|, |-|-|-|, and so on. No two rulers formed this way are equal. There are no other rulers. What axioms are needed to define bunch *ruler* consisting of all and only the rulers?

After trying the question, scroll down to the solution.

"|", ruler;"-|": ruler "|", B;"-|": $B \Rightarrow$ ruler: B