Answer on Question #71610 – Math – Discrete Mathematics

Question

Is {1,1,1,10}={1,1,1,1,10}? Justify your answer

Solution

$1 \in \{1,1,1,10\} \leftrightarrow 1 \in \{1,1,1,1,10\}$ and $10 \in \{1,1,1,10\} \leftrightarrow 10 \in \{1,1,1,1,10\}$

Hence Axiom of extensionality implies that $\{1,1,1,10\} = \{1,1,1,1,10\}$.

Answer: Yes.