CONTEXT

Theorems

AXIOMS

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\forall a,b,c,d \cdot a \mapsto b \in \text{leq } \land c \mapsto d \in \text{leq} \Rightarrow \text{plus}(a \mapsto c) \mapsto \text{plus}(b \mapsto d) \in \text{leq}
                                           axm1
                                                                                                                                                                               \forall \texttt{a}, \texttt{b}, \texttt{c}, \texttt{d} \cdot \texttt{Rzero} \Rightarrow \texttt{d} \in \texttt{leq} \; \land \; \texttt{Rzero} \Rightarrow \texttt{d} \in \texttt{leq} \; \land \; \texttt{Rzero} \Rightarrow \texttt{d} \in \texttt{leq} \; \land \; \texttt{d} \Rightarrow \texttt{b} \in \texttt{leq} \; \land \; \texttt{c} \Rightarrow \texttt{d} \in \texttt{leq} \; \land \; \texttt{d} \Rightarrow \texttt{d} \Rightarrow \texttt{d} \in \texttt{d} \Rightarrow \texttt{d} \Rightarrow
                                           axm2
                                                                                                                                                                                    (a\mapsto c) \mapsto times(b\mapsto d) \in leq
                                                                                                                                                                               \forall a,b,c \cdot a \mapsto b \in leq \land b \mapsto c \in leq \Rightarrow a \mapsto c \in leq
                                           axm3
                                                                                                                                                                               ∀a,b· a∈ RReal ∧ b ∈ RReal
                                           axm4
                                                                                                                                                                               minus(times(a→a) →times(b→b))=times(plus(a→b)→minus(a→b))
                                           axm5
                                                                                                                                                                               ∀a· a∈ RReal ⇒ uminus(a)=minus(Rzero↔a)
                                                                                                                                                                               ∀a· a∈ RReal ⇒
                                                                                                                                                                               a=plus(
                                                                                                                                                                                                                                                                         \texttt{times(divide(Rone} \; \mapsto \; \mathsf{Rtwo)} \; \; \mapsto \mathsf{a})
                                           axm6
                                                                                                                                                                                                                                                                      times(divide(Rone \mapsto Rtwo) \mapstoa)
                                                                                                                                                                               ∀a,b· a∈ RReal ∧ b∈ RReal ∧ times(a→b)∈ RRealStar
                                           axm7
                                                                                                                                                                               inverse(times(a→b))=times(inverse(a)→inverse(b))
END
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