



## Why

Is the set of real numbers a complete ordered field (in the sense of Complete Fields)?

## Main result

**Proposition 1.**  $(\mathbf{R}, +, \cdot, <)$  is a complete ordered field.<sup>1</sup>

*Proof.* The supremum of a set of nonempty real numbers bounded from above  $R$  is  $\cup R$ . □

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<sup>1</sup>The account will appear in future editions.



