



### Why

We want the a field which corresponds to points on the real line.<sup>1</sup>

### Definition

An ordered field<sup>2</sup> is *complete* if every nonempty subset bounded from above has a least upper bound.

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<sup>1</sup>Future editions are likely to modify this why.

<sup>2</sup>To be defined in future editions, but we take the usual definition of a field with an order. See, for example **Rational Order** or **Real Order**).



