

# **Introductory Real Analysis Dangelo**

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Completeness of the real numbers - Wikipedia  
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The monotone convergence theorem (described as the fundamental axiom of analysis by Körner (2004)) states that every nondecreasing, bounded sequence of real numbers converges. This can be viewed as a special case of the least upper bound property, but it can also be used fairly directly to prove the Cauchy completeness of the real numbers.

## **Bing: Introductory Real Analysis Dangelo**

The theorems of real analysis rely intimately upon the structure of the real number line. The real number system consists of an uncountable set  $\mathbb{R}$ , together with two binary operations denoted  $+$  and  $\cdot$ , and an order denoted  $<$ . The operations make the real numbers a field, and, along with the order, an ordered field. The real number system is the unique complete ordered field, in the sense that

## **Completeness of the real numbers - Wikipedia**

For any real number  $x$ , there is a real number  $y$  such that  $x + y = 0$ . 40 PART I Proofs There is a real number  $x$  such that, for every real number  $y$  with  $2 \leq y \leq 3$ , we have  $1 \leq xy \leq 2$ . 8. For every integer  $n \neq 0$ , there is an integer  $m$  such that  $mn > 0$ . 9. There are real numbers  $x$  and  $y$  such that  $x + y \in \mathbb{Z}$  and  $xy \in \mathbb{Z}$ . 10.

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