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## BOUNDEDNESS OF SETS

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### ABSTRACT

Boundedness refers to the property of a mathematical object or function that is limited within a certain range or set of values. This concept is fundamental in many areas of mathematics, including calculus, analysis, and topology, as well as in other fields like physics, engineering, and economics. It allows mathematicians to study the behavior of mathematical objects and systems under various conditions and constraints, and to make predictions about their properties and behavior. Understanding boundedness is crucial for solving many mathematical problems and for developing new mathematical theories and models. Boundedness is often used to describe the behavior of a system or function, and it plays an important role in determining the convergence or divergence of a sequence or series.

In general, boundedness provides a useful way to understand and analyze mathematical objects and their properties, and it has numerous applications in both theoretical and practical contexts. In analysis, for example, a function is said to be bounded if its values are confined within a finite range, while a sequence is bounded if

