Divergence Test

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Abstract

A series can be defined as its sequence of terms. Depending on what those sequence of terms approach, it can be determined whether or not a series converges. If the terms approach a number greater than zero, the sum adds numbers greater than zero infinitely, implying divergence.

1 Declarations

A_n; the nth term of a sequence;

2 Rule

$$\text{if } \lim_{n\to\infty} \neq 0, \sum_{n=0}^{\infty} A_n \text{ diverges} \tag{1}$$

3 Pre-Derivation

Anything that the derivation relies on goes here

4 Derivation

Derivation goes here

5 Exempli Gratia

Examples of important instances