# Limitation

## Terminology：

* Inequality (不等式)
* Converge (收敛)
* Infinitesimals (无穷小)
* Bounded (有界)
* Squeeze/Sandwich Theorem (夹逼原理)
* The monotone bounded convergence theorem (单调有界原理)
* Symmetry (对称性)

## Definition:

1. For sequence:
2. For functions：

## Six methods to evaluate limitation

1. Two important limitation：
2. Equivalent Infinitesimal Replacement

When , has:

* 1. E.g. Find the limitation of

1. Infinitesimals multiply bounded variables get Infinitesimals

e.g. Find the limitation of

1. L'Hopital's rule

If

e.g. Find the limitation of

1. Squeeze/Sandwich Theorem
2. The monotone bounded convergence theorem