

O O bet365

How do you know a limit does not exist? In short, the limit does not exist if there is a lack of continuity in the neighbourhood about the value of interest.

Recall that there doesn't need to be continuity at the value of interest, just the neighbourhood is required.

[Determining When a Limit does not Exist - Calculus - Socratic](#)

[socratic : calculus : limits : determining-when-a-limit-does-not-exist](#)

[O O bet365](#)

To determine if the limit of $f(x)$ at $x = c$ exists, we check three things:

$f(x)$ is defined at $x = c$

if the left limit of $f(x)$ at $x = c$ exists,

if the right limit of $f(x)$ at $x = c$ exists,

if these two limits are equal.

[Lesson Explainer: Existence of Limits Mathematics - Nagwa](#)

[nagwa : explainers](#)