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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

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

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

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

3. if these two limits are equal.

Lesson Explainer: Existence of Limits Mathematics - Nagwa

nagwa : explainers