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To check for the existence

of a limit of a function at a point, you can use the following conditions:

The function must

be defined in a punctured neighborhood of the point.

The limit of the function

as it approaches the point must exist and be finite.

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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 whether a limit exists or not is a subtle art. It's not enough to just look at the function's behavior at a single point; you need to consider the entire neighborhood around that point. This is why the epsilon-delta definition is so important. It provides a rigorous way to check if a function approaches a certain value as the input gets closer to a specific point. In this case, we're looking at the existence of a limit, which is a fundamental concept in calculus. Understanding this concept is crucial for many other topics in mathematics, including derivatives and integrals. So, take your time to grasp this idea, as it will be the foundation for many other mathematical concepts you'll encounter.