

Unit 1: Limits

Calculus I
Unit 1

What is a limit?

- Limits are used to understand how a function behaves as the input approaches a certain value.
- The point that the output approaches as the input approaches a given value is the limit. The point doesn't have to exist or be defined, it is just what is approached.
- The notation for a limit is "lim" over the input approaching an integer, followed by the function.
 - Ex: $\lim_{x \rightarrow 0} f(x)$ x = input x = integer function approaches $f(x)$ = function

How do you find a limit?

- To find the limit of a function:
 - Pick 2 values close to the given a , one above and one below
 - From each value, test values that get closer to a , but don't test a itself.
 - a isn't tested because it can be undefined and still have a limit
 - Use the values you get to approximate the limit
- Example problem:

Evaluate: $\lim_{x \rightarrow 0} \frac{\sin(x)}{x}$

1. Pick Values

a. Since $a = 0$, I will use h above and below

2. Make 2 charts, starting with chosen values and getting closer to a :

x	$f(x)$
-0.1	.99833
-0.01	.99998
-0.001	.99999
-0.0001	.99999

x	$f(x)$
0.1	.99833
0.01	.99998
0.001	.99999
0.0001	.99999

In both of the charts, as x approaches 0, $f(x)$ approaches 1, therefore, the limit of the function is 1

$$\lim_{x \rightarrow 0} \frac{\sin(x)}{x} = 1$$

Basic Limit Theorems

$$\lim_{x \rightarrow a} C = C$$

- The limit of a constant will always be the same as the constant itself

- Ex: $\lim_{x \rightarrow 2} 7 = 7$

C = any constant

$$\lim_{x \rightarrow a} x = a$$

- The limit of the function x will always be the same as the x -value

- Ex: $\lim_{x \rightarrow 4} x = 4$

Calculus Unit 1 Sudoku Answer

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