

# 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  $\pm$  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

**Raffaela Di Napoli**



**Calculus Unit 1 Sudoku Answer:**

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