Limits and Continuity

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## Chapter 1

- A function's limit can be one of it's own outputs. When this happens the function called a continuous function.
- A Limit of a function is not necessarily one of the function's output values.
- A Limit of a function can be one of the function values.

$$\lim_{x \to a} f(x) = f(a)$$

If a limit can be found at x=a then we can say this function is continuous as x=a

This means for a function to be continuous at x = a

- f(a) must exist
- $\lim_{x\to a} f(x)$  must exist
- $\lim_{x\to a} f(x) = f(a)$