Limits

The concept of limits describes how a function behaves as its input approaches a certain vvalue.

Example

Find $\lim_{x\to 2} x^2$. Solution: $\lim_{x\to 2} x^2 = 4$
Solution: Since x^2 is continuous,

$$\lim_{x\to 2} x^2 = 2^2 = 4.$$

Key Idea

A limit describes the behavior of a function as it approaches a point. Limits help us understand the behavior of functions near points where they may not be explicitly defined.

Silly Trick

"Get closer without kissing!" – Think of the limit as approaching, not touching.