

The calculus with analytic geometry



Let \lim stand for one of the limits
 $\lim_{x \rightarrow a}^+, \lim_{x \rightarrow a}^-, \lim_{x \rightarrow a}, \lim_{x \rightarrow a^+}, \lim_{x \rightarrow a^-}$, or $\lim_{x \rightarrow \infty}$
 if $L_1 = \lim f(x)$ and $L_2 = \lim g(x)$ both
 exist, then

- a) $\lim [f(x) + g(x)] = \lim f(x) + \lim g(x)$
 $= L_1 + L_2$
- b) $\lim [f(x) - g(x)] = \lim f(x) - \lim g(x)$
 $= L_1 - L_2$
- c) $\lim [f(x) \cdot g(x)] = \lim f(x) \cdot \lim g(x)$
 $= L_1 \cdot L_2$
- d) $\lim \frac{f(x)}{g(x)} = \frac{\lim f(x)}{\lim g(x)}$
 $= \frac{L_1}{L_2} \quad (L_2 \neq 0)$
- e) $\lim \sqrt[n]{f(x)} = \sqrt[n]{\lim f(x)}$
 $= \sqrt[n]{L_1}$
 $L_1 \geq 0$ if n is even

$$\lim [f(x)]^n = [\lim f(x)]^n$$

$$\lim_{x \rightarrow a} x^n = \left[\lim_{x \rightarrow a} x \right]^n = a^n$$

..... (A)

$$\lim [k \cdot g(x)] = \lim (k) \cdot \lim g(x)$$

$$= k \cdot \lim g(x)$$

..... (B)

Polynomial

$$f(x) = b_n x^n + b_{n-1} x^{n-1} + \dots + b_1 x + b_0$$

$$\lim [f_1(x) + f_2(x) + \dots + f_n(x)]$$

$$= \lim f_1(x) + \lim f_2(x) + \dots + \lim f_n(x)$$

$$\lim [f_1(x) \cdot f_2(x) \cdot \dots \cdot f_n(x)]$$

$$= \lim f_1(x) \cdot \lim f_2(x) \cdot \dots \cdot \lim f_n(x)$$

$$\lim_{x \rightarrow 5} (x^2 - 4x + 3)$$

$$= \lim_{x \rightarrow 5} x^2 - \lim_{x \rightarrow 5} 4x + \lim_{x \rightarrow 5} 3$$

$$= \lim_{x \rightarrow 5} x^2 - 4 \lim_{x \rightarrow 5} x + \lim_{x \rightarrow 5} 3$$

$$= (5)^2 - 4(5) + 3 = 8$$

Theorem 2.5.2

For any polynomial
 $p(x) = c_0 + c_1 x + \dots + c_n x^n$
 and any real number a
 $\lim_{x \rightarrow a} p(x) = c_0 + c_1 a + \dots + c_n a^n = p(a)$

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