

MAE101: MATHEMATICS FOR ENGINEERING

Chapter II: Limits and Continuity

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1 Limits

1.1 The limit of a function

Định nghĩa 1.1. Cho số thực a và hàm số f xác định trên khoảng mở I chứa a (f có thể không xác định tại a)

a) (*Left-sided limit*) Ta nói f có giới hạn trái hữu hạn (*left-sided*) L tại a , nếu khi x càng 'gần' a từ phía trái ($x < a$), thì $f(x)$ càng 'gần' với giá trị L :

$$\forall x < a, x - a \text{ rất nhỏ} \implies |f(x) - L| \text{ rất nhỏ}$$

b) (*Right-sided limit*) Ta nói f có giới hạn phải hữu hạn (*right-sided*) L tại a , nếu khi x càng 'gần' a từ phía phải ($x > a$), thì $f(x)$ càng 'gần' với giá trị L :

$$\forall x > a, x - a \text{ rất nhỏ} \implies |f(x) - L| \text{ rất nhỏ}$$

c) (*Two-sided limit*) Hàm số f được gọi là có giới hạn hữu hạn L tại a nếu khi x càng gần a thì $f(x)$ càng gần tới giá trị L :

$$\forall x \in I \setminus a, |x - a| \text{ rất nhỏ} \implies |f(x) - L| \text{ rất nhỏ}$$

Mệnh đề 1.2. Cho $f(x)$ là hàm số cơ bản (hàm số được cho bởi 1 công thức: *linear functions, polynomial functions, trigonometric functions, exponential functions,...*) đều có giới hạn tại mọi điểm a thuộc tập xác định của nó:

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

Ví dụ 1.3. Xét $f(x) = \frac{x}{\sqrt{x-2}}$. Hàm số này có tập xác định $D = (2, +\infty)$. Vậy nó có giới hạn tại mọi điểm $a > 2$:

$$\lim_{x \rightarrow a} f(x) = f(a) = \frac{a}{\sqrt{a-2}}$$

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