

# MAE101: MATHEMATICS FOR ENGINEERING

## Chapter II: Limits and Continuity

Thi Minh Phuong Vu

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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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