

區間

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## 第一節 區間 (Interval)

- 開區間 (Open interval) :

$$\{x \mid a < x < b\} = (a, b)$$

- 右開區間 (Left open interval) :

$$\{x \mid a \leq x < b\} = [a, b)$$

- 左開區間 (Right open interval) :

$$\{x \mid a < x \leq b\} = (a, b]$$

- 半開區間 (Half open interval) :

$$\{x \mid a \leq x < b\} = [a, b)$$

$$\{x \mid a < x \leq b\} = (a, b]$$

- 閉區間 (Closed interval) :

$$\{x \mid a \leq x \leq b\} = [a, b]$$

- 無限區間 (Infinite interval) :

$$\{x \mid a < x\} = (a, \infty)$$

$$\{x \mid a \leq x\} = [a, \infty)$$

$$\{x \mid x < b\} = (-\infty, b)$$

$$\{x \mid x \leq b\} = (-\infty, b]$$

$$\mathbb{R} = (-\infty, \infty)$$