

### 3.3 Derivatives of Trigonometric Functions

#### 多選題

1. Which of the following statements are true ?

- (A)  $\lim_{x \rightarrow \frac{\pi}{2}} \frac{\sin x}{x} = 0$ ;      (B)  $\lim_{x \rightarrow \infty} \frac{\sin x}{x} = 1$ ;
- (C)  $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$ ;      (D)  $\lim_{x \rightarrow -\infty} \frac{\sin x}{x} = 0$ .

Ans: CD [102 學年度]