

数Ⅲ (三角関数と極限①)

〇 次の極限を求めよ。

$$\textcircled{1} \lim_{x \rightarrow 0} \frac{\sin 3x}{x}$$

$$\textcircled{2} \lim_{x \rightarrow 0} \frac{\tan 3x}{2x}$$

$$\textcircled{3} \lim_{x \rightarrow 0} \frac{\tan 3x}{\sin 2x}$$

$$\textcircled{4} \lim_{x \rightarrow 0} \frac{\sin x - \sin 5x}{2x}$$

$$\textcircled{5} \lim_{x \rightarrow 0} \frac{1 - \cos 2x}{x^2}$$

$$\textcircled{6} \lim_{x \rightarrow 0} \frac{x \sin x}{1 - \cos x}$$