$x \to 0$, $x - \sin x$ 洛必达 / 泰勒

$$\sin x = x - \frac{1}{6}x^3 + o(x^3)$$

$$\Rightarrow x - \sin x = \frac{1}{6}x^3 + o(x^3)$$

$$\Rightarrow x - \sin x \sim \frac{1}{6}x^3, \to 0$$

$$g(x) - \sin g(x) \sim \frac{1}{6}g(x)^3, \ g(x) \to 0$$

$$\lim_{x \to 0} \frac{[\sin x - \sin(\sin x)]\sin x}{x^4} = \frac{1}{6}$$

$\sin x - \sin(\sin x) = \frac{1}{6}\sin^3 x$