3.2洛必达法则

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多3.2 温水正注到

1.
$$\frac{2}{3}$$
 $\frac{1}{3}$ \frac

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(1)
$$\frac{1}{x_1x_0} f(x) = \frac{1}{x_1x_0} g(x) = 0$$

(2)
$$f(x)$$
, $g(x) \in \mathcal{D}(\dot{U}(x))$, $g(x) \neq 0$

$$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = A \left(\frac{1}{2}\right)$$

$$\Rightarrow \frac{f(x)}{f(x)} = A(\vec{x} \omega)$$

$$x + x_+$$
 $x + x_ x +$

$$(iii) \qquad \stackrel{\checkmark}{=} \frac{f(x)}{g(x)} = \stackrel{\checkmark}{=} \frac{f'(x)}{g'(x)} = \stackrel{\checkmark}{=} \frac{f'(x)}{g''(x)} = \stackrel{}{=} \frac{f'(x)}{g''(x)} = \stackrel{\checkmark}{=} \frac{f'(x)}{g''(x)} = \stackrel{}{=} \frac{f'(x)}{g''(x)} = \stackrel{\checkmark}{=} \frac{f'(x)}{g''(x)} = \stackrel{}{=} \frac{f'(x)}{g''(x)}$$

$$3|1. \quad \frac{1}{x + 0} \frac{1}{x} = \frac{1}{x + 0} \frac{\sec x}{1} = 1$$

2.
$$\frac{1}{x_0} \frac{\tan x - x}{x - \sin x} = \frac{0}{x_0} \frac{\sec x - 1}{1 - \cos x} = \frac{2 \sec x + \tan x}{\sin x} = 2$$

$$=\frac{1-\cos x}{\cos x}(1-\cos x)$$

$$(1) \quad 0 \cdot \infty \xrightarrow{\stackrel{\longrightarrow}{4}} \rightarrow \frac{0}{1} \xrightarrow{\stackrel{\longrightarrow}{6}} \xrightarrow{\stackrel{\longrightarrow}{6}} \frac{1}{1} \xrightarrow{\stackrel{\longrightarrow$$

$$(4) \quad \stackrel{\sim}{\cancel{\times}} \stackrel{\sim}{\cancel{\times}} \left(\frac{\overset{\sim}{\alpha} + \tilde{b} + \tilde{c}}{\cancel{3}} \right)^{\frac{1}{\cancel{x}}}$$

(5)
$$\frac{1}{x \Rightarrow 1} \left(\frac{1}{2 + 2} - \frac{1}{2 + 1} \right)$$
 (6) $\frac{1}{2 + 2} \left(\frac{8 + 2}{2 + 2} - \frac{1}{2 + 2} \right)$

$$(7) \stackrel{1}{\cancel{\times}} \cancel{\times}$$