

$$(\tilde{\Gamma}) \quad \lim_{x \rightarrow -\infty} \sqrt{x^{\mathfrak{I}} + \mathfrak{I}} - \sqrt{x^{\mathfrak{I}} - \mathfrak{I}x}$$

$$(\mathfrak{P}) \quad \lim_{n \rightarrow +\infty} \frac{\mathfrak{I}}{n} \left(\cosh \frac{\mathfrak{I}}{n} + \cdots + \cosh \mathfrak{I} \right)$$

$$(\mathfrak{S}) \quad \lim_{n \rightarrow +\infty} \sqrt[n]{\frac{((\mathfrak{I}n)!)^{\mathfrak{I}}}{n!(\mathfrak{I}n)!}}$$

$$(\mathfrak{J}) \quad \lim_{n \rightarrow +\infty} \left[\ln \left(\mathfrak{I} + \frac{\mathfrak{I}}{n} \right)^{\frac{1}{n}} + \ln \left(\mathfrak{I} + \frac{\mathfrak{I}}{n} \right)^{\frac{1}{n}} + \cdots + \ln \mathfrak{I}^{\frac{1}{n}} \right]$$

$$(\mathfrak{X}) \quad \int_{-\mathfrak{I}}^{\mathfrak{I}} [|x|]d\,|x|$$

$$(\mathfrak{B}) \quad \sum_{n=\circ}^{\infty} \frac{(-\mathfrak{I})^n \mathfrak{I}^n \pi^{\mathfrak{I}n}}{(\mathfrak{I}n)!}$$

$$(\mathfrak{T}) \quad \lim_{x \rightarrow \circ^+} \left(\frac{a^{x^{\mathfrak{I}}} + b^{x^{\mathfrak{I}}}}{a^x + b^x} \right)^{\frac{1}{x}}$$

$$(\mathfrak{Z}) \quad z^{\mathfrak{I}} = \frac{\left(\cos \frac{\mathfrak{I}\pi}{\mathfrak{I}} + i \sin \frac{\mathfrak{I}\pi}{\mathfrak{I}} \right)^{\mathfrak{I}}}{\left(\cos \frac{\pi}{\lambda} - i \sin \frac{\pi}{\lambda} \right)^{\mathfrak{I}\mathfrak{I}}} \tag{1}$$

$$(\mathfrak{Z}) \quad \int_{\mathfrak{I}}^{\infty} \frac{\ln x}{\sqrt{x}(\mathfrak{I}+x^{\mathfrak{I}})}dx$$