$$\frac{\tan x}{x \to 0} = \frac{O}{O} = 1.$$

$$\frac{\sin x}{x \to 0} = \frac{O}{O} = 1.$$

$$\frac{\sin x}{x \to 0} = \frac{1}{e^{\sin x} - 1 + 1 - \cos x} = \frac{1}{e^{\cos x}} = \frac{1}{e^{\sin x} - 1 + 1 - \cos x} = \frac{1}{e^{\cos x}} = \frac{1}{e^{\sin x} - 1 + 1 - \cos x} = \frac{1}{e^{\sin$$

$$\lim_{x \to 0} \frac{\sqrt{1 + x^3} - 1}{x^3 - x^4} =
\begin{bmatrix}
\frac{1}{4} \\
\frac{1}{4}
\end{bmatrix}$$

$$= \lim_{x \to 0} \frac{(4 + x^3)^{\frac{4}{4}} - 4}{x^3} = \frac{4}{4}$$

$$= \lim_{x \to 0} (\cos x)^{\frac{4}{x^2}} = 1^{00} \quad \text{F.1.}$$

$$= \lim_{x \to 0} (\cos x)^{\frac{4}{x^2}} = 1^{00} \quad \text{F.1.}$$

$$= \lim_{x \to 0} 2 \quad \text{lu}(\cos x)^{-\frac{4}{x^2}} = \lim_{x \to 0} 2 \quad \text{lu}(\cos x) = \lim_{x \to 0} 2 \quad$$

$$\lim_{x \to +\infty} \frac{\ln x}{\ln(x+2)} = \frac{\infty}{\infty} \quad \text{F.I.} \qquad [1]$$

$$= \lim_{x \to +\infty} \frac{\ln (x+2-2)}{\ln (x+2)} = \lim_{x \to +\infty} \frac{\ln ((x+2)(1-\frac{2}{x+2}))}{\ln (x+2)} = \lim_{x \to +\infty} \frac{\ln (x+2)}{\ln (x+2)} = \lim_{x \to +\infty} \frac{\ln (x+2)}{\ln$$