Indeterminate form:

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$$\left(\frac{0}{0}\right)$$
1. Calculate the limit $\lim_{x\to 0} \frac{e^x - 1}{10 \ln(1+x)}$. $\frac{\left(\frac{0}{0}\right)}{L}$ $\lim_{X\to 0} \frac{e^X}{1+X} = \frac{1}{(0)}$

(X) 2. Calculate the limit
$$\lim_{x\to 0} \frac{4x - \sin(\pi x)}{2x^2 - 1} = \frac{O}{1} = O$$

$$\frac{4x - \sin(\pi x)}{2x^2 - 1}$$
 is NOT one of the indeterminate form.

$$\left(\frac{\omega}{\omega}\right)$$
3. Calculate the limit $\lim_{x\to\infty}\frac{\ln(x^7)}{x}$. $\frac{\left(\frac{\omega}{\wp}\right)}{L}\lim_{X\to\infty}\frac{7\chi^6}{X}=\lim_{X\to\infty}\frac{7}{X}=0$.

