

Let $\lim_{n \rightarrow \infty} \{x_n\} = c \rightarrow$ a finite no.

then consider $\lim_{n \rightarrow \infty} e^{x_n} = e^{\lim_{n \rightarrow \infty} x_n} = e^c \rightarrow$ finite

then $\{e^{x_n}\}$ is convergent