	Let an be a convergent sequence of real numbers with limit L. Let be be a sequence of real numbers converging to 1 the a sequence converging to zero.
	Converging to zero.
	Show anbort En is a sequence that also converges to L.
2	Let an be a segnence of real numbers with limit L.
	Let M70 a fixed real number
	& let S be the interval [L-M, L+M]
	Let f_n be a sequence of functions $f_n: IR \longrightarrow R$
	donain of fix & range of fis a real number any real number
	Further suppose that $\lim_{n\to\infty} \left(\sup_{1 \in S} \left f_n(n) - \alpha \right \right) = 0$
	·
	a) Show that $f_n(a_n) \longrightarrow L$ as $n \to \infty$.
	b) I the "sup" necessary in the lim condition for for?
	What if $\lim_{N\to\infty} f_N(x) - x = 0$ for each $x \in S$?
	$u \rightarrow \omega$