Thm Suppose $a_n \to a$ and $b_n \to b$. Then $a_n + b_n \to a + b$ (and $\lambda a_n \to \lambda a$) and $a_n b_n \to a \cdot b$

Thm If $a_n \to a \neq 0$, then $\frac{1}{a_n} \to \frac{1}{a}$

Corollary If $a_n \to a$ and $b_n \to b \neq 0$ then $\frac{a_n}{b_n} \to \frac{a}{b}$