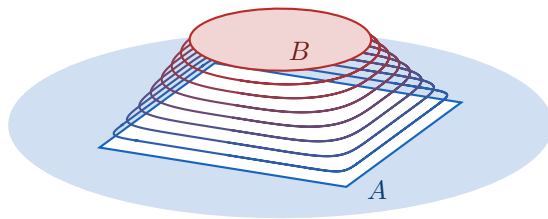
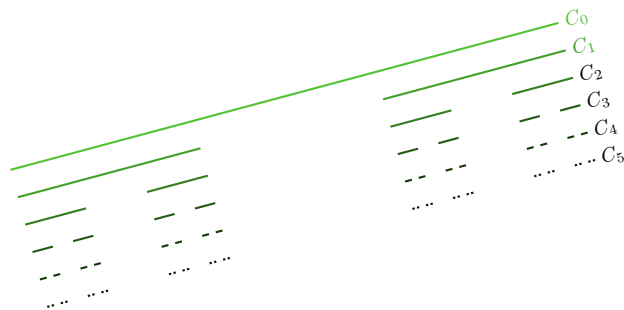


$$\begin{array}{ccc} X & \xrightarrow{U\{\infty\}} & X^* \\ \downarrow & & \downarrow \\ C_0(X) & \xrightarrow{\oplus \mathbf{F}1} & C(X^*) \end{array}$$

Three graphs of functions  $f(x) \sin(tx)$  for increasing values of  $t$ . The functions oscillate with increasing frequency. Below the graphs is the equation  $\lim_{t \rightarrow \infty} \int_{\mathbb{R}} f(x) \sin(tx) dx = 0$ .

>implying we can discuss analysis



A graph showing a sequence of functions  $f_n$  converging to a limit function. The functions are plotted on a yellow background with a dashed black boundary. The equation  $\int \lim_{n \rightarrow \infty} f_n d\mu = \lim_{n \rightarrow \infty} \int f_n d\mu$  is written above the graph.