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Examples of closed sets in \mathbb{R}^1 and \mathbb{R}^2

\emptyset and M are always closed
space F_j and F_α are closed in M

(i) if F_1, \dots, F_n are closed,
so is $\bigcup_{j=1}^n F_j$

(ii) if F_α is closed for $\alpha \in J$,
so is $\bigcap_{\alpha \in J} F_\alpha$