Exercises

E3.273 [038] Let C be a set, I a family of indexes, and then B_i sets, for $i \in I$; suppose the sets B_i are pairwise disjoint; define $\mathcal{B} = \bigcup_{i \in I} B_i$ for convenience; then show that

$$\forall i, |B_i| \leq |C| \quad \Rightarrow \quad |\mathcal{B}| \leq |I \times C| \tag{3.274}$$

$$\forall i, |B_i| \geq |C| \quad \Rightarrow \quad |\mathcal{B}| \geq |I \times C| \quad . \tag{3.275}$$

Solution 1. [039]

[[03B]]