Exercises

11.38 [11M] Show that

$$\|A\|_{1,1} = \max_{1 \le j \le n} \sum_{i=1}^{m} |A_{i,j}|,$$

$$\|A\|_{\infty,\infty} = \max_{1 \le i \le m} \sum_{j=1}^{n} |A_{i,j}| \quad .$$