0.101 [ov4] Setting $X = \mathbb{R}^n$ and d the usual Euclidean distance, taken

Exercises

Solution 1. [OV5]

usual Heine-Borel theorem [48]: *C* is compact if and only if it is

closed and bounded.

 $C \subseteq \mathbb{R}^n$, use the above theorem [0v3] to show (as a corollary) the