## Exercises

9.129 [OWR] Consider two balls $B(x,r)$ and $B(y,\rho)$ radius $0 < r \leq \rho$ that have non-empty intersection: then $B(x,r) \subseteq B(y,\rho)$.

Similarly for the disks $D(x,r) \stackrel{\text{def}}{=} \{y \in X : d(x,y) \leq r\}$ and $D(y,r)$.

**Solution 1.** *[OWS]*