## Exercises

E10.b.26 [OPY] Prerequisites: [OP1], [ONH].

Let 
$$D(x,r) \stackrel{\text{\tiny def}}{=} \{y \in X : d(x,y) \le r\}$$
 be the disk, show that it is closed.

## Let $S(x,r) \stackrel{\text{\tiny def}}{=} \{y \in X : d(x,y) = r\}$ be the sphere, show that it is closed.

## Solution 1. [OPZ]