**Exercises**

E9.23 [ONZ] Topics:balls.

Prove that
$$B_\rho(x) \subseteq B_r(x_0) \qquad (9.23)$$

for every $x \in B_\rho(x_0)$ and for every $0 < \rho \leq r - d(x, x_0)$.

**Solution 1.** [OPO]