

**Exercise 3.143.** [1X6] Let  $f : \mathbb{R} \rightarrow \mathbb{R}$  be bijective, and  $F \subseteq \mathbb{R}^2$  its graph; let  $f^{-1}$  be the inverse of  $f$  and let  $G$  be its graph; show that  $G$  is the symmetric of  $F$  with respect to the bisector of the first and third quadrants.