Exercises

3.132 [21P] Given two totally ordered non-empty sets $(X, \leq_X)$ and $(Y, \leq_Y)$, suppose there exists a strictly increasing monotonic bijective function $f : X \to Y$: show that then its inverse f^{-1} is strictly increasing, and consequently $(X, \leq_X)$ and $(Y, \leq_Y)$ are *equiordinate*.

Solution 1. [21T]