Exercises

3.248 [03H] Found a polynomial $p(x, y)$ which, seen as a function $p : \mathbb{N}^2 \to \mathbb{N}$ is bijective. It follows, iterating, that there is a polynomial q_k in k variables $q_k : \mathbb{N}^k \to \mathbb{N}$ that is bijective. So $\mathbb{N}^k$ is countable.

Solution 1. *[03J]*