

A new Proof of Zippin's Embedding Theorem and Applications
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In 1988, Zippin answered a question posed by Pelczynski in 1964 and proved that every reflexive separable Banach space X embeds into a reflexive space with basis, and that every Banach space with separable dual embeds into one with a shrinking basis. We will present a new proof of these results. Roughly speaking, instead of starting by embedding X into a "large" Banach space Z with basis (for example $C[0, 1]$) and then "prune" this space until it has the desired properties, we start with a Markushevich basis of X , and "augment" X until this basis becomes a Schauder basis. This proof leads to a space Y with basis containing X , which, in many respects, is much closer to X than in previous constructions. For example we will solve another problem stated by Olek, and prove that X and its superspace Y share the same Szlenk index