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Series in Banach Spaces. Preliminary report.

We will start with the classical theorem about convergent series of real numbers: a convergent series is either unconditionally convergent (in which case it is absolutely convergent) or conditionally convergent (in which case it can be rearranged to converge to any preordained real number). Problems 106 and 122 of the Scottish book address wonder what happens to this theorem in infinite dimensional Banach spaces. The solutions have a storied history with many interesting byproducts. We hope to discuss the solutions as well as take a look at some of the byproducts. (Received September 10, 2014)