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8. Analysis

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Powers and resolvents

We intend to discuss recent results and problems relating various properties of resolvents and powers of linear operators. Sample questions: (1) Find a (nonzero) quasinilpotent operator with resolvent majorized by const/$|z|$ for Re$z > 0$. (2) Does $\sup_n n\|T^n - T^{n+1}\| < \infty$ imply $\sup_n \|T^n\| < \infty$, where $n = 1, 2, \ldots$?