## Asymptotic equicontinuity

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The notion of asymptotically equicontinuity of a sequence of linear operators is introduced, and use it to prove the following result. If X, Y are topological vector spaces, if  $T_n, T: X \to Y$  are continuous linear maps, and if D is a dense subset of X, then the following statements are equivalent:

- 1.  $T_n x \to T x$  for all  $x \in X$ , and
- 2.  $T_n x \to T x$  for all  $x \in D$  and the sequence  $(T_n)$  is asymptotically equicontinuous.