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# Self-test Questions on Prerequisites

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## Abstract

The following is a collection of solutions of the self-test questions for Real Variables at the Courant Institute.

### Question.

**Solution.** Two sets are said to be equipotent provided there is a bijective map from one to another. Hence, to show that the sets  $(0, 1]$  and  $[0, 1]$  are equipotent, it suffices to construct a bijective map from  $(0, 1]$  to  $[0, 1]$ .