

## ABOUT A THEOREM OF VOLTERRA RELATED TO CONTINUOUS FUNCTIONS

**Abstract.** In 1881 Volterra proved that (see [7] and [3]) if two real valued functions defined on  $\mathbb{R}$  are continuous respectively on two dense subsets of  $\mathbb{R}$ , then the set of common continuity points is also dense in  $\mathbb{R}$ .

The aim of my paper is to generalize this result of Volterra for complete metric spaces, proving in addition that the set of common continuity points is not countable.

Particularly, a function can't be continuous only in rational points.

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