Proof 1

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Math 790, Real Analysis

April 27, 2022

Theorem (Page 4 # 6). For any metric space E, the entire space E is an open set.

Proof. Replace this text with the details of your proof. Mathematical symbols go between dollar signs, like this: E, *not* in plain text like this: E. If there are more symbols you want, such as $\in$, you can find them at `http://detexify.kirelabs.org/classify.html`. If you want to set expressions or equations out from the text so that they are more readable (great idea!), put them between double dollar signs:

$$|x - x_0| < \delta \implies |f(x) - f(x_0)| < \epsilon.$$

The small square marks the end of the proof. $\square$