

Re: isometries, and symmetry groups

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On 2008-03-31, Narcoleptic Insomniac <i_have_narcoleptic_insomnia@xxxxxxxx> wrote:

Of course, that begs the question: Is $\text{Homeo}(M) \cong \text{Isom}(M)$ for every metric space M ? Intuitively, I would like to say yes,

It is easy to construct counterexamples, one of the smallest being $\{1,2,4\}$ with the usual Euclidean metric. It has only the identity isometry, but 6 homeomorphisms.

– Tim

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