

link between topological and metric spaces

Source: <http://sci.tech-archive.net/Archive/sci.math.research/2005-11/msg00138.html>

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 - *Date:* Sun, 27 Nov 2005 16:00:11 +0000 (UTC)
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Given a topological space (X, τ) , can we find a metric d s.t. (X, d) is a metric space and the topology induced by this metric space is:

- 1) a subset of
- 2) exactly equal to
- 3) a superset of

(X, τ) ? If yes, how, if not why not?

If someone can point me to an appropriate book or research paper or give me some pointers about how to solve this, I will be much grateful.

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