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Section 20: The Metric Topology | dbFin

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Sections 14-16: The Order Topology, The Product Topology on , The Subspace Topology. 1. Show that if is a subspace of , and is a subset of , then the topology inherits as a subspace of is the same as the topology it inherits as a subspace of .. If is open in relative to , then there exists an open set in such that .Also, because is open in , there exists open in such that .

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21. The Metric Topology (cont.) 7 in RJ where, in general, πβ: Q α∈J Xα → Xβ. So U = π −1 β (Uβ) − Q α∈J Xα where Xα = R for α 6= β and Xβ = (−1,1). Then U is a basis element for the product topology and this is why it is open. Also, 0 ∈ U. However, no element of {an} is in U since the βth coordinate of all an's is 1.

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