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B= fB r(x) : x2X and r>0g; where B r(x) = fy2X: d(x;y) <r is the ball of radius rabout x. Proof. Point (1) is clear. For (2), suppose x2B r(y) \B s(z). Then x2B r(x) \B r(y) \B s(z), where r = 1 2 min(r d(x;y);s d(x;z)) >0. Thus metric spaces have a natural topological structure. However, not all topological spaces

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