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(3,1, ρ)-metrizable topological spaces

We compare the notions of o-metrizable, pseudo-o-metrizable and symmetrizable topological spaces with the notion of (3,1, ρ)-metrizable spaces. We show the following:

1. A topological space is pseudo-o-metrizable if and only if it is (3,1, ρ)-metrizable.

2. A topological space is o-metrizable if and only if it is (3,1, Δ)-metrizable.

3. A topological space is symmetrizable if and only if it is (3,1, Δ)-metrizable with a (3,1, Δ) metric d , satisfying: $d(x, x, y) = d(x, y, y)$ for all x, y .