

Syarat-syarat fungsi dan barisan di ruang metrik agar ruang metriknya memiliki Atsuj completion = Some conditions of function and sequence in metric space in order that the metric space has atsuj completion

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Abstrak

Suatu ruang metrik disebut sebagai ruang Atsuj jika untuk setiap fungsi kontinu dan bernilai real di ruang metrik tersebut akan kontinu seragam. Ruang metrik dikatakan memiliki Atsuj completion jika completion dari ruang metrik tersebut adalah ruang Atsuj. Dalam skripsi ini, dipelajari syarat-syarat fungsi dan barisan di ruang metrik agar ruang metrik tersebut memiliki Atsuj completion. Fungsi dan barisan yang ditinjau merupakan fungsi Cauchy-sequentially regular dan barisan yang tidak memiliki subbarisan Cauchy.

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A metric space is called an Atsuj space if every real-valued continuous function on it is uniformly continuous. Metric space is called to have an Atsuj completion if its completion is Atsuj space. In this skripsi, some conditions of function and sequence in metric space will be studied in order that the metric space has Atsuj completion. The function and sequence that will be considered are Cauchy-sequentially regular function and sequence that has no Cauchy subsequence.