

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

Azki Nuril Ilmiyah, author

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#### Abstrak

Suatu ruang metrik disebut sebagai ruang Atsuji jika untuk setiap fungsi kontinu dan bernilai real di ruang metrik tersebut akan kontinu seragam. Ruang metrik dikatakan memiliki Atsuji completion jika completion dari ruang metrik tersebut adalah ruang Atsuji. Dalam skripsi ini, dipelajari syarat-syarat fungsi dan barisan di ruang metrik agar ruang metrik tersebut memiliki Atsuji 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 Atsuji space if every real-valued continuous function on it is uniformly continuous. Metric space is called to have an Atsuji completion if its completion is Atsuji space. In this skripsi, some conditions of function and sequence in metric space will be studied in order that the metric space has Atsuji completion. The function and sequence that will be considered are Cauchy-sequentially regular function and sequence that has no Cauchy subsequence.