



Math for the people, by the people.

something related to Alexandrov one-point compactification

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The topology for $X \cup \{\infty\}$ is defined as follows: there are two kinds of open sets of $X \cup \{\infty\}$. If $\infty \notin U$, then U is open if and only if U is an open set in the topology of X . If $\infty \in U$, then U is open if and only if U is the complement of a closed compact subset K of X .