

Questions for quiz 1 - ?

Define countable

Define uncountable

Give examples of countable sets

Give examples of countably infinite sets

Give examples of uncountable sets

The countable union of countable sets is

The finite product of countable sets is

$\{0, 1\}^\omega$ is

Does there exist a surjective map between A and $\mathcal{P}(A)$

Define topology

Give an example(s) of a collection of sets which is a topology.

Give an example(s) of a collection of sets which is not a topology.

Determine which of the following are topologies.