

Homework Assignment #1

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Hi everyone. This is the Easter Bunny bringing you Easter cheer in the form of a homework assignment! It will be due ??????????????????????????????. Rock on!

1. Let X and Y be topological spaces, and suppose $f : X \rightarrow Y$ is a function. Prove that f is continuous if and only if for all *closed* sets $F \subseteq Y$ we have $f^{-1}(F)$ is also closed.
- 2.