Math 121 Topology Spring quarter 2007 (R.E.Greene) Homework #3 Due : Friday April 27

From your text :

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Also:

Consider the functions f_n on [0,1], $f_n(x)=sin(\pi nx)$. Find explicitly a subsequence which converges (pointwise) on the rational numbers in [0,1], i.e., $\{f_{n_j}(x)\}$ is convergent for each $x \in Q \cap [0,1]$. Discuss carefully why your subsequence does not converge uniformly (to anything).