ON STEADY

Definition:

The Bright Side of Mathematics



Real Analysis – Part 25

 $(f_1, f_1, f_3, f_4, f_5, ...)$ is pointwisely convergent to $f: I \rightarrow \mathbb{R}$ $\forall \tilde{x} \in I \quad \forall \epsilon > 0 \quad \exists N_{\tilde{x}} \in \mathbb{N} \quad \forall n \ge N : \quad |f_n(\tilde{x}) - f(\tilde{x})| < \epsilon$ $(f_1, f_1, f_3, f_4, f_5, ...)$ is uniformly convergent to $f: I \rightarrow \mathbb{R}$ if







 $\left\|f_{n}-f\right\|_{\infty}\xrightarrow{n\to\infty}0$

