



Math for the people, by the people.

pointwise convergence

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Let X be any set, and let Y be a topological space. A sequence f_1, f_2, \dots of functions mapping X to Y is said to be *pointwise convergent* (or simply convergent) to another function f , if the sequence $f_n(x)$ converges to $f(x)$ for each x in X . This is usually denoted by $f_n \rightarrow f$.