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A classroom note on the convergence of Taylor series.

Math. Comput. Educ. 28, No. 2, 132-135 (1994).

Many students have the misconception that if the Taylor series of a function $f(x)$, about an arbitrary value a of x , converges, then the limit of the series is $f(x)$. The author discusses Cauchy's counterexample of a function where the Taylor series converges for any real value of x but not to $f(x)$ except for the angle value $x = a$.

Classification: I35