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RESEARCH PROBLEM

33. E. W. Cheney and P. C. Curtis, Jr., *Convex bodies.*

Let M denote a linear manifold (i.e. translate of a linear subspace) in n-dimensional real space. For each real $p>1$ there is a unique point $x_p=(\xi_{p1}, \cdots, \xi_{pn})$ on M for which the norm $(\sum_{j=1}^{n} |\xi_{pj}|^p)^{1/p}$ is a minimum. Prove or disprove the conjecture that $\lim_{p\to\infty} x_p$ exists in all cases. The conjecture has been established by simple arguments when $n \leqq 3$, when M has dimension 1 or $n-1$, and when there exists a unique point $x_0=(\xi_{01}, \cdots, \xi_{0n})$ on M for which $\max_j |\xi_{0j}|$ is a minimum. (Received January 20, 1962.)