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Negative theorems in approximation theory.

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This article is based on a lecture that the author presented to some graduate students. Most mathematical theories try to explain what is possible and also what may be its limitations. By the 'negative theorems' he refers to those results that delineate what cannot be done, as compared to what is possible. Herein some negative results in approximation theory are considered. Three main categories of results are taken up: (i) results involving inverse theorems, (ii) results connected with limitations of linear process and (iii) results concerned with Kolmogorov n -width. Several examples are presented. *Ganesh Datta Dikshit (Auckland)*

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