CONTENTS

Abstract: A. A. Efimov [3] obtained uniform approximation for a class of continuous functions by Euler $(E, 1)$ means of their Fourier series. The $[F, d_n]$ methods were introduced by A. Jakimovski [5] as a generalization of both the Euler method and the Stirling-karamata-Lototsky method [6]. In this paper by considering $[F, d_n]$ methods, while we obtain new results for some known methods of $[F, d_n]$ family such as Karamata etc., we also extend the results to a larger class of continuous functions.

Abstract: Throughout this paper sequences and infinite matrices have their enteries in a complete, non-trivially valued non-archimedean field K. In this paper a generalized product of sequences is introduced and characterizations for $l_\infty(p), c_0(p)$ to be closed under this product are studied.

Abstract: We give a characterization of remotal points of pairs of bounded sets in terms of extremal points. Some applications of remotal points of pairs of sets in the spaces $C(Q)$ and $C_R(Q)$ (Q-compact) are also provided.

Abstract: Let $I(G, R)$ denote the incidence algebra of a locally finite directed graph G over a commutative ring R with identity. In this paper, we show that under various sets of conditions on G and R, the incidence algebra $I(G, R)$ determines the graph G.

Abstract: In this paper we discuss the set of traces of commutators in an arbitrary discrete subgroup of $SL(2, C)$. That is we fix $f \in \Gamma$ and consider the set

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{tr$[f, g]$: $g \in \Gamma$}. We show that generically this set it discrete in the plane by forming a series, related to the Poincaré series, which we show to converge in a half space (modulo the obvious infinite multiplicities). We then apply this result to aspects of theory of discrete groups. In particular, the finiteness of certain conjugacy classes of subgroups and geometric inequalities, such as Jørgensen's inequality.

S. S. Bhatiya and B. Ram
On L^1-convergence of certain modified trigonometric sums   171-176

Abstract: L^1-convergence of r-th differential of trigonometric sums introduced by Ram and Kumari [3] has been studied. Results of Ram and Kumari have been obtained as corollary of our result.

R. K. Saxena and Y. Singh
Integral operators involving generalized H-function   177-188

Abstract: The object of the present note is to introduce two new fractional integration operators associated with l-function due to Saxena [15] and to establish certain important properties which generalize the results given earlier by several authors [3, 6, 7, 9-14]. Inversion formulae and compositions (or product) of these operators are also established.

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