

Coefficients of Some Double Trigonometric Cosine and Sine Series

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Abstract : In this paper, the results of Kano from one-dimensional cosine and sine series are extended to two-dimensional cosine and sine series. To extend these results, some classes of coefficient sequences such as the class of semi convexity and class R are extended from one dimension to two dimensions. Under these extended classes, I have checked the function $f(x,y)$ is two dimensional Fourier Cosine and Sine series or equivalently it represents an integrable function. Further, some results are obtained which are the generalization of Moricz's results.

Keywords : conjugate dirichlet kernel, conjugate fejer kernel, fourier series, semi-convexity

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