



Seminar Announcement

Speaker: Rajeh EID
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An alternative way to compute the exact values
for some infinite series

Abstract

Iterative formulas to compute the exact values of series of forms

$$\sum_{n=1}^{\infty} \frac{1}{n^{2k}} \quad \sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{n^{2k}} \quad \sum_{n=1}^{\infty} \frac{(-1)^n}{(2n+1)^{2k-1}}$$

have been introduced, where k is any positive integer. Mainly, the Fourier series representations of the simple power functions x^{2k} and x^{2k+1} in the interval $-\pi, \pi]$ are used in the derivation of the recursive formulas. Exact results for the sum of such series are then given for some specific values of k .

DATE: June 25, 2015

TIME: 16:20

PLACE: Cengiz YENER M Conference Hall

All interested people are cordially invited.

After the seminar, some cookies and soft drinks will be served.