

X = 4 (SinTiz 1 Sin 2TIZ 1 Sin 3TIZ -000) - 1 Sin 2TIZ 1 Sin 3TIZ -000) - 1 Sin 2TIZ 1 Sin 2TIZ 1 Sin 3TIZ -000) رافي مورد الم المعربية المعربية والملح كريد عبارت السيارة (١١ماني كالسير ١٠٠) بالسائل لوی ارس ری دورد داده ساسه درو رهی مسلم مولع مرداست : $\frac{1}{2} = -\frac{1}{4} \left(\frac{2}{\pi} \cos \pi x - \frac{1}{2} \times \frac{2}{2\pi} \cos \frac{2\pi x}{2} + \frac{1}{3} \times \frac{2}{3\pi} \cos \frac{3\pi x}{2} - \cdots \right)$ $\frac{x^{2}}{x^{2}} = -\frac{8}{12}\left(\cos \pi x - \frac{1}{2}\cos 2\pi x + \frac{1}{2}\cos 3\pi x - \cdots\right) + C$ $x^{2} = -16/(88\pi x^{2} - \frac{1}{2^{2}} \cos 2\pi x^{2} + \frac{1}{3^{2}} \cos 3\pi x^{2}) + C$ $a = \frac{1}{2} \left(\frac{2}{2} dx = \frac{1}{2} \frac{3}{3} \right)^2 = \frac{8}{6} = \frac{4}{3}$ 17-4 (CSX CSBR CSBR CSBR CSBR CSBR TAN) - 1X1 , -11 XXII entreporter 110 Yellow (10) = (-1)ⁿ (-1)ⁿ (-1)ⁿ (-1)ⁿ (-1)ⁿ $F(x) = |x| = \begin{cases} -x & -\frac{\pi}{2} < x < 0. \end{cases}$ $= \frac{\pi}{2} - \frac{4\pi}{\pi} \left[\frac{\cos x}{\cos x} + \frac{\cos 5x}{\cos 5x} + \frac{\cos 5x}{\cos 5x} \right]$ $= \frac{\pi}{2} - \frac{4\pi}{\pi} \left[\frac{\cos x}{\cos x} + \frac{\cos 5x}{\cos 5x} + \frac{\cos 5x}{\cos 5x} \right]$ $= \frac{\pi}{2} - \frac{4\pi}{\pi} \left[\frac{\cos x}{\cos x} + \frac{\cos 5x}{\cos 5x} + \frac{\cos 5x}{\cos 5x} + \frac{\cos 5x}{\cos 5x} \right]$ $g(x) = \begin{cases} -\frac{2}{7} - \frac{1}{7} \times \frac{2}{7} \\ -\frac{1}{7} \times \frac{2}{7} \end{cases} = \begin{cases} -\frac{2}{7} \times \frac{2}{7} \times \frac{2}{7} \\ -\frac{1}{7} \times \frac{2}{7} \times \frac{2}{7} \end{cases} = \begin{cases} -\frac{2}{7} \times \frac{2}{7} \times \frac{2}{7} \\ -\frac{1}{7} \times \frac{2}{7} \times \frac{2}{7} \times \frac{2}{7} \end{cases}$ $g(x) = \frac{\pi}{2}x - \frac{1}{\pi}\sum_{n=0}^{\infty} \frac{\sin(2n+1)x}{(2n+1)^3} + 3$ 3(1/2) = 1/2 x 1/2 - 4 5 (Sin(2n+1) 1/2) (2n+1) 3 3(1/2) = 1/2 - 4/2 (2n+1)3 $\pi_{3}^{2} - \pi_{4}^{2} = -4\pi_{5}^{2} (-1)^{2}$ (+ 11/8) (+ 11/4) = = 11/82 (2n+1)3 = 11/82

منال ۲: هـ رطه سری قوی بانع ۲ به بر ۱۳ و محرد است fax = 1/3+2+ 5 (-1) 1/2 Cosnx 27) finida-ta: + 5, (an + 6,) $\sum_{n=1}^{\infty} (x^{2})^{2} dx = 2(\pi^{2})^{2} + \sum_{n=1}^{\infty} \frac{17}{n^{2}} \Rightarrow \frac{1}{\pi} \times \frac{25}{5} = 2\pi^{2} + 16 \sum_{n=1}^{\infty} \frac{1}{n^{2}}$ $\frac{2}{\pi} \times \frac{15}{5} = \frac{2}{\pi} \times \frac{15}{5} = \frac{2\pi^{4}}{5} = \frac{\pi^{4} \times^{2}}{5} = \frac{165}{5} = \frac{1}{10} \times \frac{1}{10} = \frac{1}{10} = \frac{1}{10} \times \frac{1}{10} = \frac{1}{10}$ $\pi^{41} \left[\frac{2}{5} - \frac{1}{4} \frac{x^{2}}{3} \right] \times \frac{1}{16} = \frac{5}{n=1} \frac{1}{n^{41}} = \frac{5}{n^{41}} = \frac{5}{n^{$ en paris de de Sinx e xxx con monte de la seria della Far = 2 (1+ C3nT) C3nx 2 Fandr 200+ 5 (0n+6n) 15.45 45.05 61 1/200 $F_{(x)} = S_{(n)x} = \frac{3}{2\pi} \int_{2\pi} \frac{S_{(n)x}^2 dx}{2\pi} = \frac{1}{\pi} \int_{2\pi} \frac{(1 - c_8 2\pi)}{2\pi} \frac{dx}{2\pi} = \frac{1}{2\pi} \times 2\pi = 1$ $1 = 2(\frac{3}{4\pi})^2 + \frac{5}{2\pi} \left(\frac{-2}{2\pi} \times \frac{2}{2\pi} \right)^2$ $1 = 2(\frac{3}{4\pi})^2 + \frac{5}{2\pi} \left(\frac{-2}{2\pi} \times \frac{2}{2\pi} \right)^2$ $1 - 2(\frac{2}{\pi})^2 + \sum_{n=1}^{\infty} \left(\frac{-2}{(n-1)(n+1)} \times \frac{2}{\pi}\right)^2$ 9/x (3/8-1)

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ecinty in your - TK XXX TI close of Fix) = X2 Tologo och one adding Far Sinx - (Sin2x) + (Sin3x)/3- Clot of gla) = x 2 pliggings 3 ~ Sinx - 1 Sin2x + 1 Sin3x (32 dx ~ csx + 1 cs2x = 1 cs3x + 00 x/4 ~ csx + 1 cs2x - 1 cs8x + ... 2 ~ 4 (-csx + 1 cs2n 1 cs3n + ····) + C $Q_{n} = \frac{1}{\pi} \left\{ \frac{\pi}{2\pi} \frac{2\pi}{2\pi} - \frac{1}{2\pi} \frac{2\pi}{3} \right\} = \frac{1}{\pi} \left\{ \frac{2\pi}{3} \frac{2\pi}{3} \right\} = \frac{1}{\pi} \left$

وليه، عليًا ou distintes و مرسان منسوم ع ١)سىرى قۇرىغىلىم زىدىردا نولت دوسە ئەمىلەلۇل مىقالىق مىستىران راسىياسىد - アイメ へ。 $|x| = |x| = \begin{cases} -x^2 \\ x^2 \end{cases}$ アンメトゥ ۱۱۶ و مدری دورد از در دار درسی اورد و | (μχ) = ε - | χ / π / χ / π | Γ(χ + 2π) = Γ(χ) , Γ(χ) = (- κ - π / χ / ο συρος) ω(μουνος συρος) ω(μουνος συρος) ω(μουνος συνος συρος) عبرانع جهاد که کرید که کرید کا این موروش است. سری عالی از مین است. سری عبران است. سری عبران است. سری عبران است. سری قوریه ان ای داردست ورد (ارات مطیب ۱۳۷۸) Fix = 1 % 3 IXIX'S CIGORO TIXXIT alor of Fix) con medica m Diedminier $\frac{1}{4\pi} \sum_{n=1}^{\infty} \frac{\sin(2n-1)x}{(2n-1)} = \frac{1}{2} \frac{-1}{2} \frac{-\pi \cos(2n-1) \cos(2n-1)}{(2n-1)} = \frac{1}{2} \frac{\cos(2n-1)x}{(2n-1)} = \frac{$ سری فوری احاطبها اوردی

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