















Opg & (iv) Fourier rækken for f er $f \sim \frac{\alpha}{2} + \frac{\pi}{2} \left(a_n \left(a_s \left(a_s \right) + b_n \frac{\sin \left(a_s \right)}{\sin \left(a_s \right)} \right) \right)$ Fourier holficienterne er givet ved $a_n = \frac{1}{7} \int_{-1}^{1} f(x) \cos(nx) dx =$ = 0 (1+ sin (3x)) cos(nx) olx for n = 0,1,2, $b_n = \frac{1}{11} \int f(x) \sin(nx) dx =$ $\frac{1}{\pi} \left\{ (1 + \sin(3 \times 1)) \sin(n \times 1) dx \right\}$ red brug af Maple tas $a_0 = 1 - \frac{2}{37}$ 3 ((-1) 1 + 1) $Q_n = \frac{3n \left(cos \left(n \pi \right) + 3n \right)}{\pi n \left(n^2 - 9 \right)}$ Tr (n2-9) for n = 1,2,4,5,6, ___ Du ma ihre divideres med 0 for n = 3.



