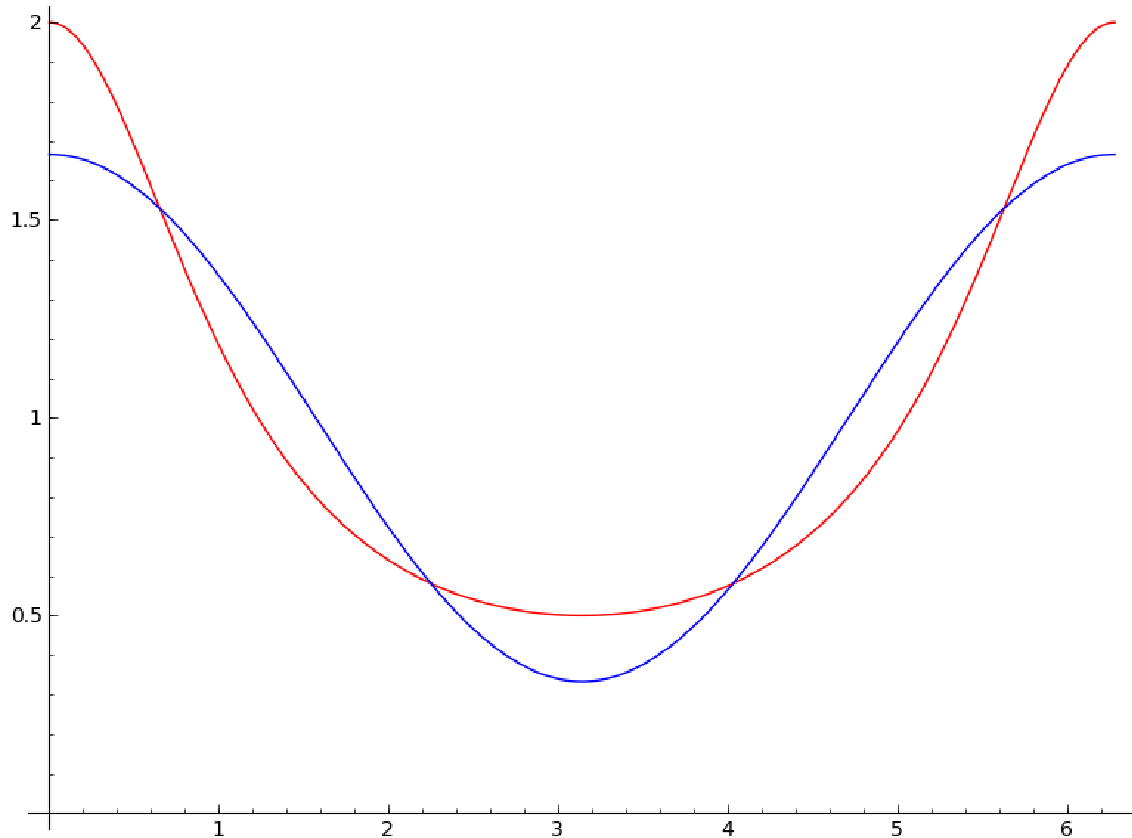


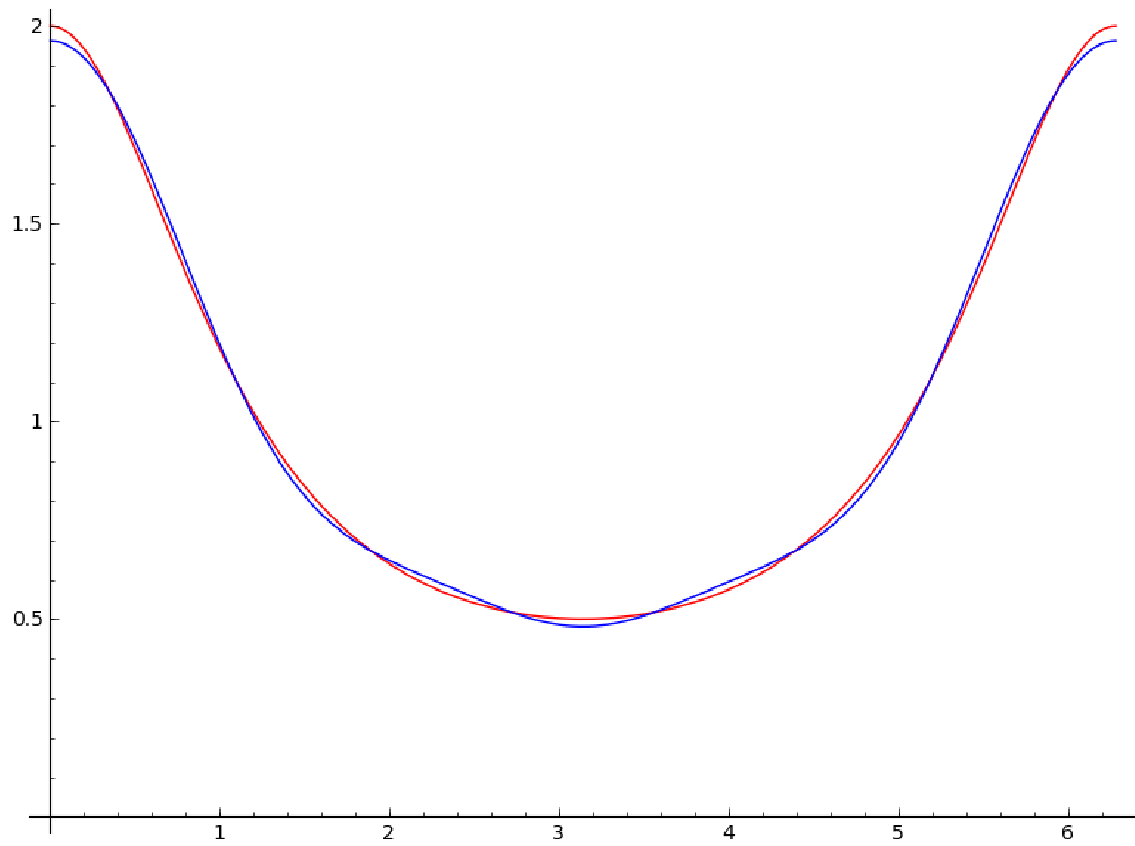
Partial sums of a Fourier series

Given the non-singular and absolutely continuous function $f(x) = 4 / [5 - 3 \cos(x)]$, we expect a Fourier series (since $f(x)$ is periodic, with period 2π) and with only cosine terms (since $f(x)$ is even) and converging rapidly, since Fourier coefficients should drop as exponentially, not as a power law.

Here's the Fourier sum of the constant plus $\cos(x)$ part:



Here's the Fourier sum of the constant plus terms through $\cos(3x)$:



Here's the Fourier sum of the constant plus terms through $\cos(4x)$:

