

Compute a Fourier Series

Exercise. We warm up with a reminder of how one computes the Fourier series of a given periodic function using the integral Fourier coefficient formulas.

Compute the Fourier series for the period 2π continuous sawtooth function $f(t) = |t|$ for $-\pi \leq t \leq \pi$.

MIT OpenCourseWare
<http://ocw.mit.edu>

18.03SC Differential Equations
Fall 2011

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.