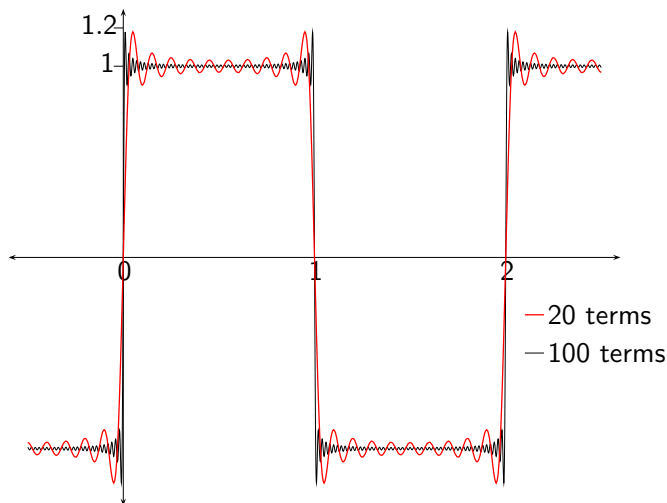


The Gibbs Phenomenon



Fourier Sine Series for $f(x) = 1$ on $[0, 1]$:

When there are jump discontinuities, the overshoot persists forever but gets narrower and narrower as you sum more terms.