Real Analysis Notes
Math 112 — Harvard University
Spring 2002

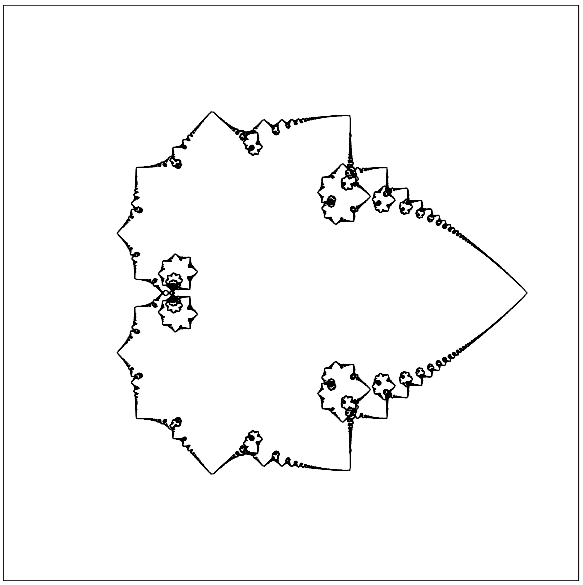

Figure 1. Image of Riemann's 'nowhere differentiable' function

$$f(z) = \sum_{1}^{\infty} \exp(\pi i n^2 z)/n^2,$$

z ranging in $\mathbb{R}$. The function is actually differentiable at countably many points (Gerver, Amer. J. Math. 1970).