

Fonction issue de la transformée de Fourier discrète appliquée à la suite de points dessinée.

On a rangé les coefficients du plus grand au plus petit (en module).

$$\begin{aligned} f(t) = & 400.49 + 299.87i + (102 - 113i)e^{-it} + (-20.6 - 51.1i)e^{it} + (-4.8 - 28.6i)e^{-2it} + (13.5 - \\ & 24.7i)e^{2it} + (6.3 - 7.7i)e^{3it} + (-9.21 + 3.63i)e^{-3it} + (-2.52 - 6.03i)e^{-5it} + (-1.17 - 4.45i)e^{5it} + (-0.69 - \\ & 3.64i)e^{-12it} + (-2.49 - 2.53i)e^{4it} + (2.16 + 2.22i)e^{12it} + (1.56 - 2.67i)e^{-9it} + (-1.79 - 2.28i)e^{11it} + (-0.412 - \\ & 2.85i)e^{-4it} + (2.3 - 1.72i)e^{-7it} + (-0.725 - 2.72i)e^{6it} + (2.13 - 1.77i)e^{-10it} + (0.313 + 2.6i)e^{-13it} + (0.397 + \\ & 2.3i)e^{10it} + (0.504 - 1.85i)e^{-8it} + (-0.362 - 1.4i)e^{-15it} + (0.811 - 1.05i)e^{13it} + (0.435 + 1.21i)e^{-11it} + \\ & (-0.699 - 0.931i)e^{17it} + (-0.562 - 0.961i)e^{8it} + (0.445 - 0.885i)e^{-6it} + (-0.0273 + 0.962i)e^{-20it} + (-0.564 - \\ & 0.742i)e^{15it} + (0.529 - 0.679i)e^{-24it} + (-0.827 - 0.235i)e^{18it} + (0.034 + 0.83i)e^{19it} + (-0.311 - 0.671i)e^{-14it} + \\ & (-0.714 + 0.188i)e^{-25it} + (-0.308 - 0.668i)e^{-16it} + (0.706 - 0.18i)e^{-19it} + (-0.557 - 0.412i)e^{7it} + (0.633 - \\ & 0.2i)e^{23it} + (0.307 - 0.569i)e^{26it} + (0.613 + 0.173i)e^{-26it} + (-0.049 + 0.619i)e^{14it} + (0.34 - 0.514i)e^{-27it} + \\ & (-0.367 + 0.445i)e^{-29it} + (0.506 - 0.215i)e^{35it} + (0.529 + 0.0845i)e^{-21it} + (0.0978 + 0.502i)e^{31it} + (0.493 + \\ & 0.0717i)e^{-23it} + (0.365 - 0.331i)e^{49it} + (0.314 + 0.38i)e^{-30it} + (-0.00976 - 0.492i)e^{9it} \end{aligned}$$