F5FTSINCRS

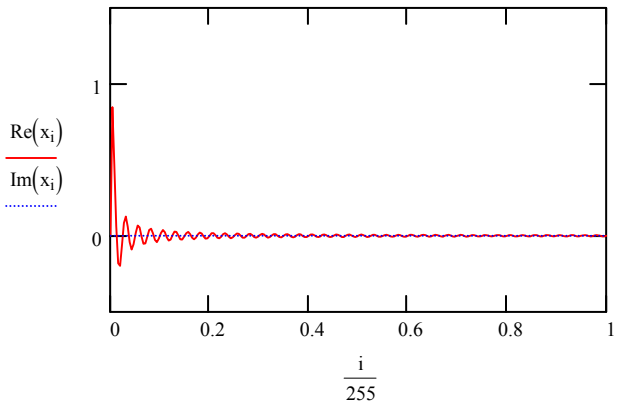
The real FT is used.
Fourier transform of sinz/z function of width 0 to d.

Original function

$i := 0 .. 255$

$$x_i := \frac{\sin\left(2\cdot\pi\cdot d\cdot\frac{i}{255}\right)}{2\cdot\pi\cdot d\cdot\frac{i}{255}}$$

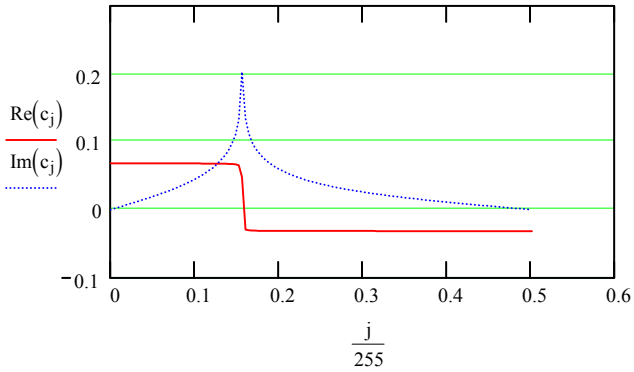
Global definition of d $d \equiv 40$



Fourier transform

$c := fft(x)$
$N := last(c)$ $N = 128$
$j := 0 .. N$

The first zero of the FT is at 1/2d



Fourier transform (inverse) of Fourier transform

$z := ifft(c)$

$N2 := last(z)$ $N2 = 255$

$k := 0 .. N2$

$\frac{1}{2\cdot d} = 0.013$