

F2FTSTEPDS

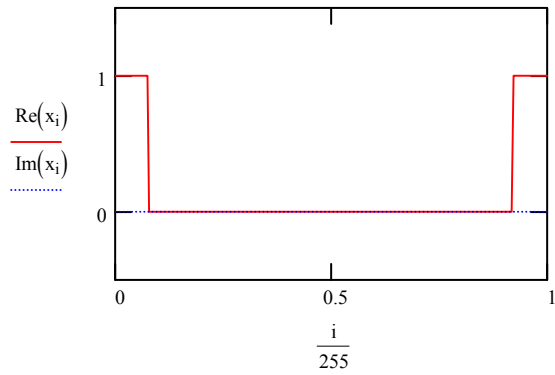
The real FT is used.

Fourier transform of DOUBLE SIDED step function of width 0 to d.

Original function

$$i := 0..255$$

$$x_i := [\Phi(i) - \Phi[i - (d)]] + \Phi(i - 255 + d)$$



Fourier transform

$$c := \text{fft}(x)$$

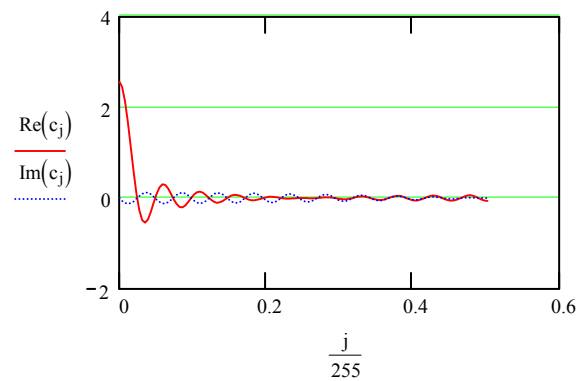
$$N := \text{last}(c) \quad N = 128$$

$$j := 0..N$$

Global definition
of d

$$d \equiv 20$$

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



Fourier transform (inverse) of Fourier transform

$$z := \text{ifft}(c)$$

$$N2 := \text{last}(z) \quad N2 = 255$$

$$k := 0..N2$$

$$\frac{1}{2 \cdot d} = 0.025$$

