

## F1FTSTEPS

The real FT is used.

Fourier transform of a SINGLE SIDED step function of width 0 to d.

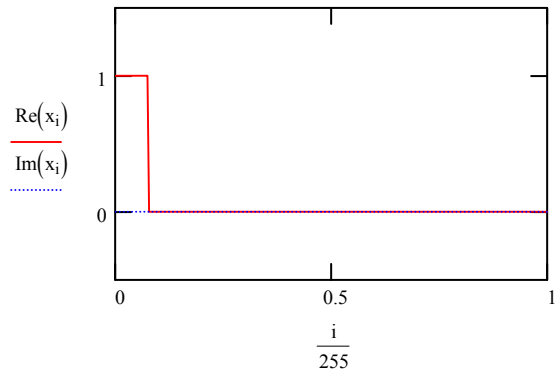
### Original function

$i := 0..255$

$x_i := (\Phi(i) - \Phi(i - d))$

Global definition  
of d

$d \equiv 20$

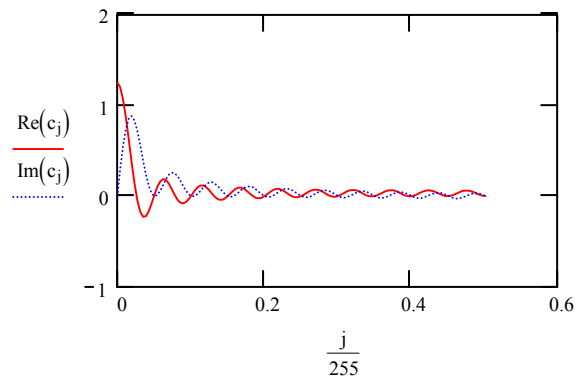


### Fourier transform

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

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

$j := 0..N$



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

### Fourier transform (inverse) of Fourier transform

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

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

$j := 0..N$

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

