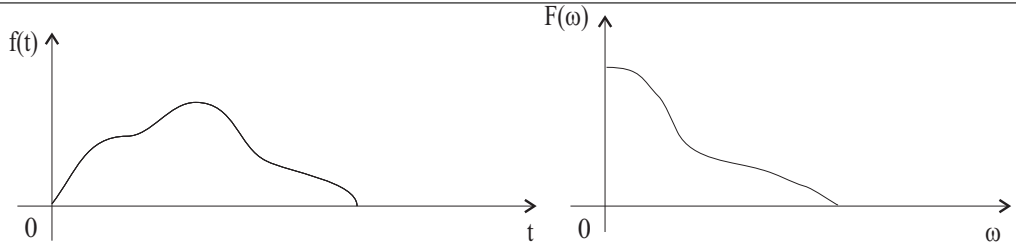
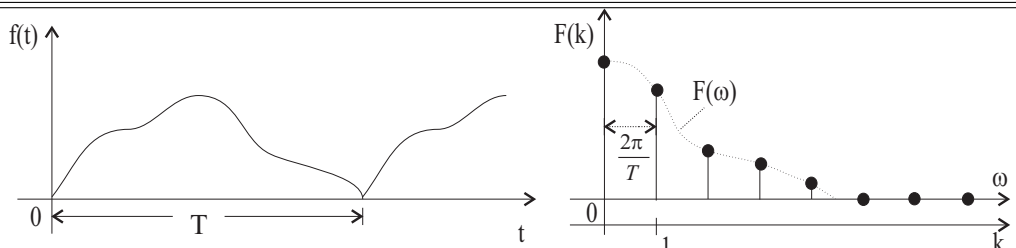
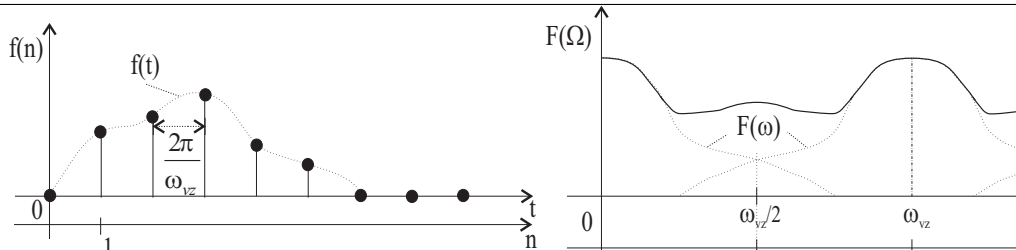
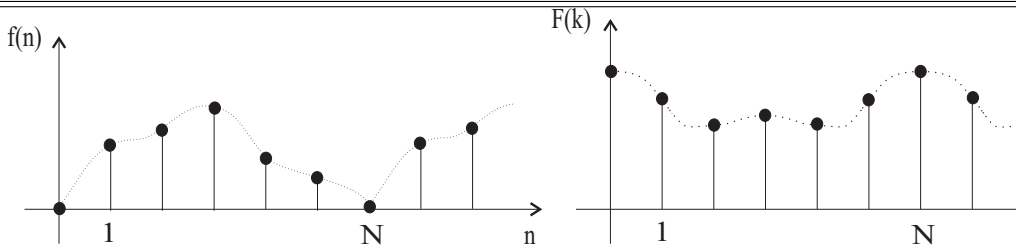


CTFT (FT)	 $f(t) = \frac{1}{2\pi} \int_{\omega} F(\omega) e^{j\omega t} d\omega$ $F(\omega) = \int_t f(t) e^{-j\omega t} dt$
CTFS (FR)	 $f(t) = \sum_k F(k) e^{j2\pi kt/T}$ $F(k) = \frac{1}{T} \int_{-\frac{T}{2}}^{\frac{T}{2}} f(t) e^{-j2\pi kt/T} dt$
DTFT	 $f(n) = \frac{1}{2\pi} \int_{-\pi}^{\pi} F(\Omega) e^{j\Omega n} d\Omega$ $\Omega = 2\pi\omega/\omega_{vz}$ $F(\Omega) = \sum_n f(n) e^{-j\Omega n}$
DTFS (DFT)	 $f(n) = \frac{1}{N} \sum_{k=0}^{N-1} F(k) e^{j2\pi nk/N} = \frac{1}{N} \sum_{k=0}^{N-1} F(k) W_N^{nk}$ $F(k) = \sum_{n=0}^{N-1} f(n) e^{-j2\pi nk/N} = \sum_{n=0}^{N-1} f(n) W_N^{-nk}$ $W_N = e^{j2\pi/N}$

Tabuľka 6.1. Fourierova transformácia a jej druhy