		_
	g[n] $h[n]$	G[k] $H[k]$
Linearity	$\alpha g[n] + \beta h[n]$	$\alpha G[k] + \beta H[k]$
Circular time-shifting	$g[\langle n-n_o\rangle_N]$	$W_N^{kn_o}G[k]$
Circular frequency-shifting	$W_N^{-k_o n} g[n]$	$G[\langle k-k_o \rangle_N]$
Duality	G[n]	$Ng[\langle -k \rangle_N]$
N-point circular convolution	$\sum_{m=0}^{N-1} g[m]h[\langle n-m\rangle_N]$	G[k]H[k]
Modulation	g[n]h[n]	$\frac{1}{N} \sum_{m=0}^{N-1} G[m] H[\langle k - m \rangle_N]$

Length-*N* Sequence

N-point DFT

Type of Property

 $\sum_{n=0}^{N-1} |x[n]|^2 = \frac{1}{N} \sum_{k=0}^{N-1} |X[k]|^2$ Parseval's relation