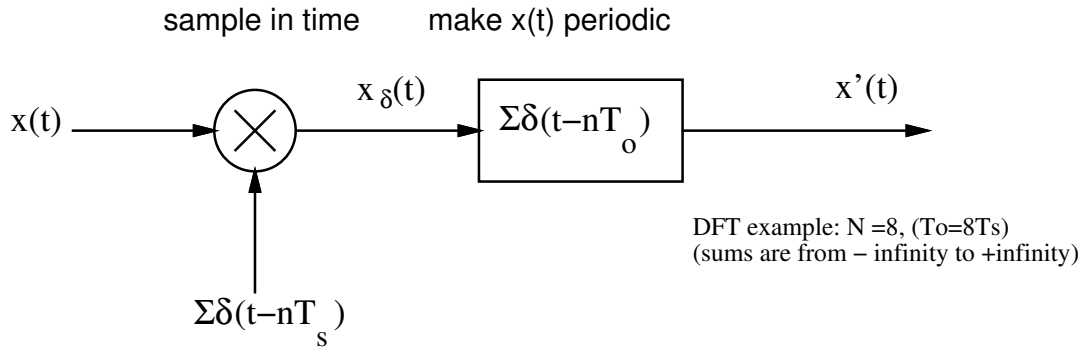

DFT example: N =8, (To=8Ts)
(sums are from – infinity to +infinity)

Time Domain

Frequency Domain

x(t)

Σδ(t−nT s)

x δ(t)

Σδ(t−nT o)

x'(t)

x[n]

X[k]

To/2

4π/To

2π/Ts

To/2Ts =4

2π/To

8π/T0

0 1 2 3 4 5 6 7 8 9 n

0 1 2 3 4 5 6 7 8 k

N