

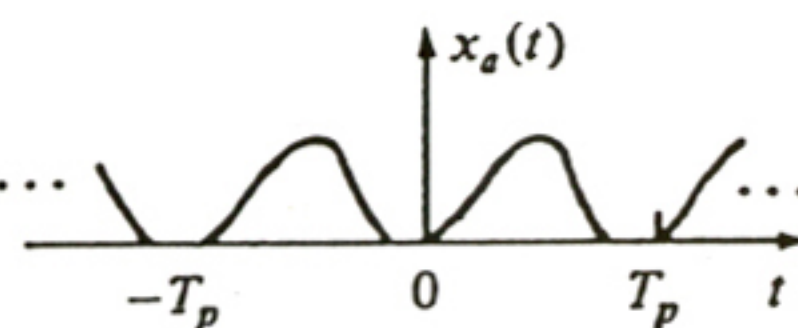
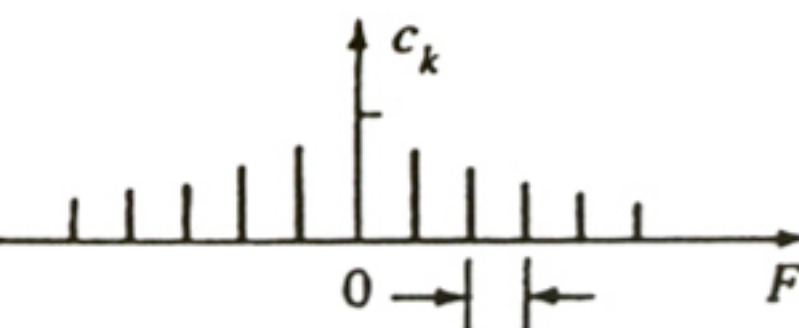
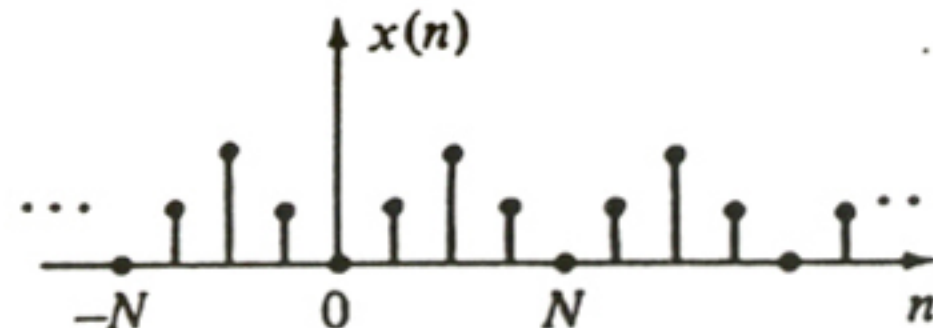
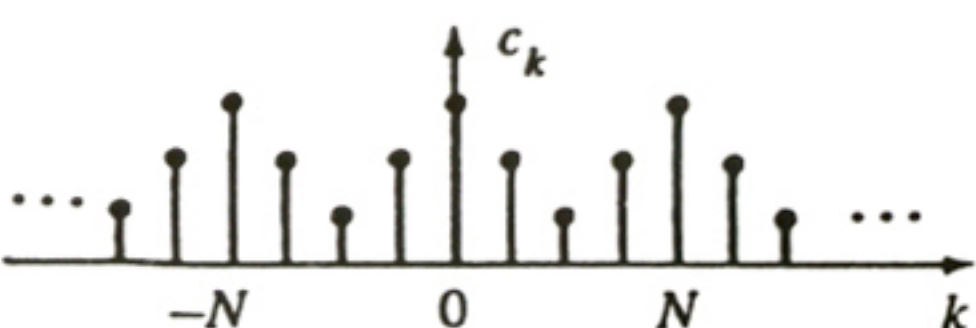
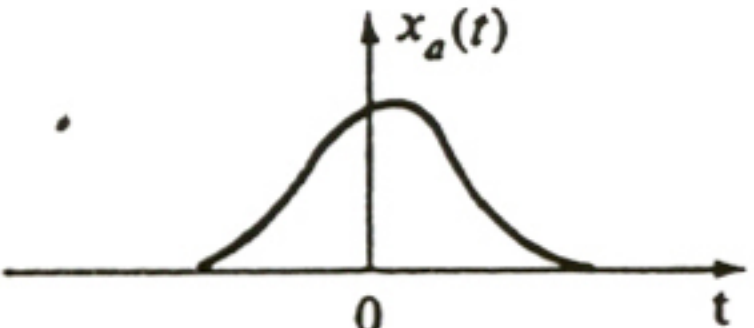
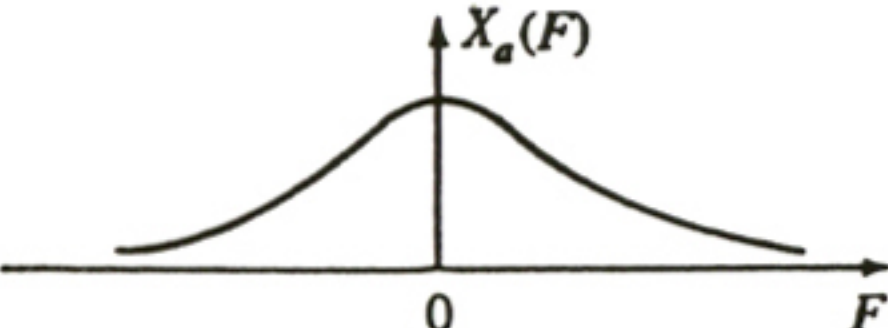
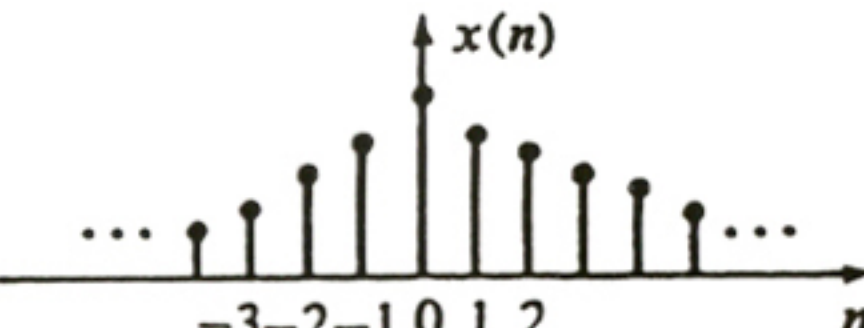
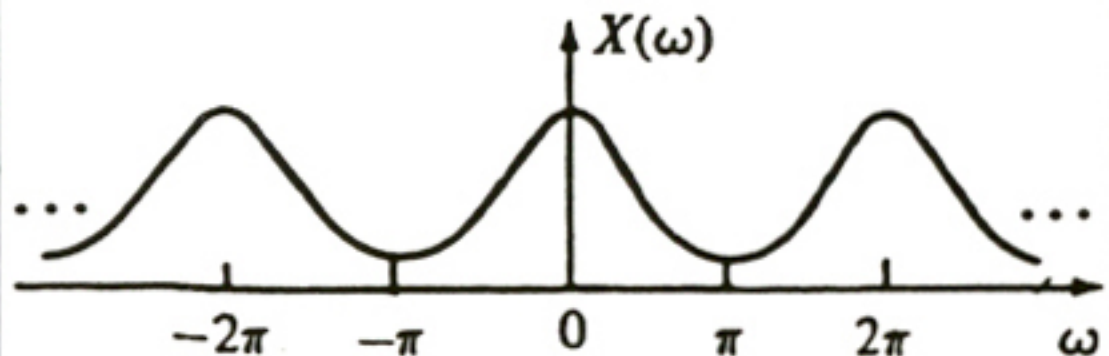
		CONTINUOUS-TIME SIGNALS		DISCRETE-TIME SIGNALS	
		TIME-DOMAIN	FREQUENCY-DOMAIN	TIME-DOMAIN	FREQUENCY-DOMAIN
PERIODIC SIGNALS	FOURIER SERIES	 $c_k = \frac{1}{T_p} \int_{T_p} x_a(t) e^{-j2\pi k F_0 t} dt$	 $F_0 = \frac{1}{T_p}$	 $c_k = \frac{1}{N} \sum_{n=0}^{N-1} x(n) e^{-j\frac{2\pi}{N} kn}$	 $x(n) = \sum_{k=0}^{N-1} c_k e^{j\frac{2\pi}{N} kn}$
		CONTINUOUS AND PERIODIC	DISCRETE AND APERIODIC	DISCRETE AND PERIODIC	DISCRETE AND PERIODIC
APERIODIC SIGNALS	FOURIER TRANSFORMS	 $X_a(F) = \int_{-\infty}^{\infty} x_a(t) e^{-j2\pi Ft} dt$	 $x_a(t) = \int_{-\infty}^{\infty} X_a(F) e^{j2\pi Ft} dF$	 $X(\omega) = \sum_{n=-\infty}^{\infty} x(n) e^{-j\omega n}$	 $x(n) = \frac{1}{2\pi} \int_{2\pi} X(\omega) e^{j\omega n} d\omega$
		CONTINUOUS AND APERIODIC	CONTINUOUS AND APERIODIC	DISCRETE AND APERIODIC	CONTINUOUS AND PERIODIC

FIGURE 3.31 Summary of analysis and synthesis formulas.