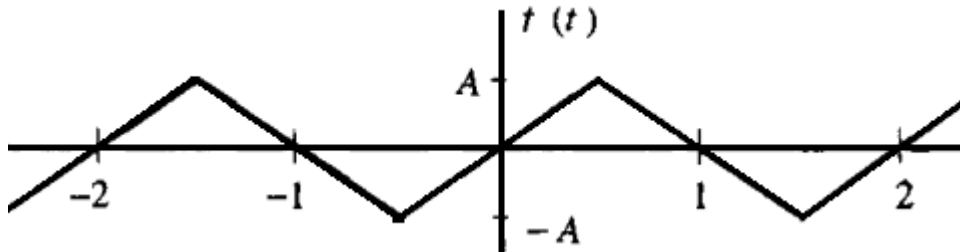


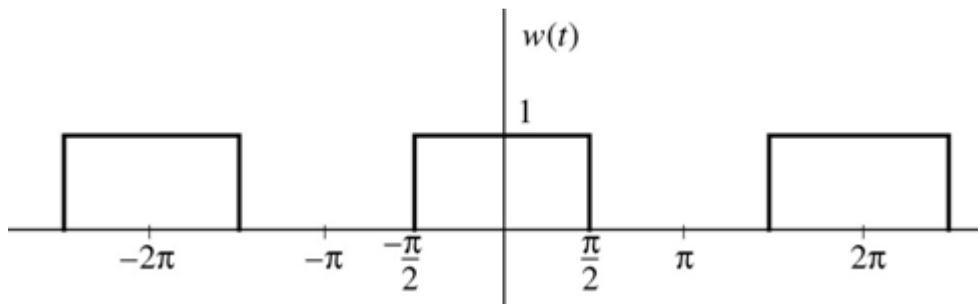


Sheet 5

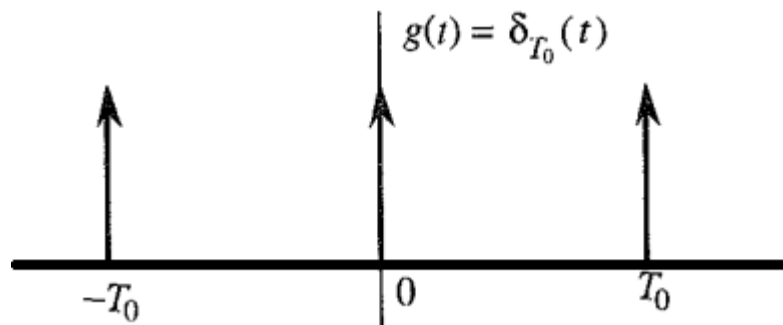
1. Find the trigonometric Fourier series, compact trigonometric Fourier series and exponential Fourier series for the triangular periodic signal shown in Fig. over the interval $-1 \leq t \leq 1$.



2. Find the trigonometric Fourier series, compact trigonometric Fourier series and exponential Fourier series for the periodic square wave shown in the figure.



3. Find the trigonometric Fourier series, compact trigonometric Fourier series and exponential Fourier series for the periodic impulse train shown in the figure.



4. Find the trigonometric Fourier series, compact trigonometric Fourier series and exponential Fourier series for the signals in the figure below.

