

Therefore,

$$x(t) = x(t) + x(t) = \sum_{n=-\infty}^{\infty} x(t - nT) + \sum_{n=-\infty}^{\infty} e^{j2\pi nT} x(t) = 2x(t).$$

3.24. (a) We have

$$a_0 = \frac{1}{2} \int_{-1}^1 x(t) dt = \frac{1}{2} \int_{-1}^1 (1 - t) dt = 1/2.$$

(b) The signal $x(t) = \text{tri}(t)/4$ is as shown in Figure 33.24.

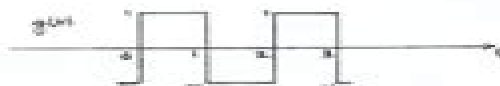


Figure 33.24

The FS coefficients b_n of $x(t)$ may be found as follows:

$$b_0 = \frac{1}{2} \int_{-1}^1 x(t) dt = \frac{1}{2} \int_{-1}^1 x(t) dt = 0$$

and

$$b_n = \frac{1}{2} \int_{-1}^1 x(t) e^{-j2\pi nT} dt = \frac{1}{2} \int_{-1}^1 x(t) e^{-j2\pi nT} dt = \frac{1}{2} \int_{-1}^1 x(t) e^{-j2\pi nT} dt.$$

(c) Note that

$$x(t) = \frac{dx(t)}{dt} \cdot \frac{dt}{dt}, \quad b_n = j2\pi nT a_n.$$

Therefore,

$$a_n = \frac{1}{j2\pi nT} b_n = -\frac{1}{j2\pi nT} (1 - e^{-j2\pi nT}).$$

3.25. (a) The nonzero FS coefficients of $x(t)$ are $a_n = a_{-n} = 1/2$.

(b) The nonzero FS coefficients of $x(t)$ are $b_n = b_{-n} = 1/2$.

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(c) Using the multiplication property, we know that

$$x(t) = x(t) \cdot 1, \quad a_n = \sum_{k=-\infty}^{\infty} a_k b_{n-k}.$$

Therefore,

$$a_n = a_n + b_n = \frac{1}{2} \delta[n - 2] + \frac{1}{2} \delta[n] = \frac{1}{2} \delta[n].$$

This implies that the nonzero Fourier series coefficients of $x(t)$ are $a_n = a_{-n} = (1/4)\delta[n]$.

(d) We have

$$x(t) = \cos(4t) \cos(4t) = \frac{1}{2} \cos(8t).$$

Therefore, the nonzero Fourier series coefficients of $x(t)$ are $a_n = a_{-n} = (1/4)\delta[n]$.

3.26. (a) If $x(t)$ is real, then $x(t) = x^*(t)$. This implies that for $x(t)$ real $a_n = a_{-n}^*$. Since this is not true in this case, $x(t)$ is not real.

(b) If $x(t)$ is even, then $x(t) = x(-t)$ and $a_n = a_{-n}$. Since this is true for this case, $x(t)$ is even.

(c) We have

$$x(t) = \frac{dx(t)}{dt} \cdot \frac{dt}{dt}, \quad b_n = j2\pi nT a_n.$$

Therefore,

$$b_n = \begin{cases} 0, & n = 0 \\ -4j(1/2)\cos(2\pi nT), & \text{otherwise} \end{cases}$$

Since b_n is not even, $x(t)$ is not even.

3.27. Using the Fourier series synthesis eq. (3.26),

$$\begin{aligned} x[n] &= a_0 + a_1 e^{j2\pi nT} + a_{-1} e^{-j2\pi nT} + a_2 e^{j4\pi nT} + a_{-2} e^{-j4\pi nT} + a_3 e^{j6\pi nT} + a_{-3} e^{-j6\pi nT} \\ &= 2 + 2 \cos(2\pi nT) + 2 \cos(4\pi nT) + 2 \cos(6\pi nT) + 2 \cos(8\pi nT) + 2 \cos(10\pi nT) \\ &= 2 + 2 \cos(2\pi nT) + 2 \cos(4\pi nT) + 2 \cos(6\pi nT) + 2 \cos(8\pi nT) + 2 \cos(10\pi nT) \\ &= 2 + 2 \cos(2\pi nT) + 2 \cos(4\pi nT) + 2 \cos(6\pi nT) + 2 \cos(8\pi nT) + 2 \cos(10\pi nT) \end{aligned}$$

3.28. (a) $N = 7$,

$$a_n = \frac{1}{2} e^{j\pi nT} \frac{\sin(2\pi nT/2)}{\sin(\pi nT/2)}$$

(b) $N = 6$, a_n over one period ($0 \leq n \leq 5$) may be specified as: $a_n = a_n/6$.

$$a_n = \frac{1}{6} e^{j\pi nT} \frac{\sin(\frac{2\pi nT}{2})}{\sin(\frac{\pi nT}{2})}, \quad 0 \leq n \leq 5.$$

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(c) $N = 5$,

$$a_n = 1 + 2 \cos(\pi nT/2) + 2 \cos(2\pi nT/2).$$

(d) $N = 12$, a_n over one period ($0 \leq n \leq 11$) may be specified as: $a_n = a_n/12 = a_n/12$.

(e) $N = 12$, $a_n = 0$ otherwise.

(f) $N = 4$,

$$a_n = 1 + 2(-1)^n \cos(\frac{\pi nT}{2}) + \frac{1}{2} \cos(\frac{\pi nT}{2}).$$

(g) $N = 12$,

$$\begin{aligned} a_n &= 1 + (-1)^n \left(2 \cos(\frac{\pi nT}{2}) + 2 \cos(\frac{2\pi nT}{2}) \right) \\ &\quad + 2 \cos(\frac{3\pi nT}{2}) + 2 \cos(\frac{4\pi nT}{2}) + 2 \cos(\frac{5\pi nT}{2}) + 2 \cos(\frac{6\pi nT}{2}) \end{aligned}$$

3.29. (a) $N = 5$. Over one period ($0 \leq n \leq 4$),

$$x[n] = 4\delta[n - 1] + 4\delta[n - 2] + 4\delta[n - 3] + 4\delta[n - 4].$$

(b) $N = 5$. Over one period ($0 \leq n \leq 4$),

$$x[n] = \frac{1}{2} \left[\frac{-e^{j\pi nT} \sin(\frac{5}{2} \frac{\pi nT}{2}) + \frac{1}{2}}{\sin(\frac{1}{2} \frac{\pi nT}{2})} + \frac{e^{j\pi nT} \sin(\frac{5}{2} \frac{\pi nT}{2}) - \frac{1}{2}}{\sin(\frac{1}{2} \frac{\pi nT}{2})} \right]$$

(c) $N = 5$. Over one period ($0 \leq n \leq 4$),

$$x[n] = 1 + (-1)^n + 2 \cos(\frac{\pi nT}{2}) + 2 \cos(\frac{2\pi nT}{2}).$$

(d) $N = 5$. Over one period ($0 \leq n \leq 4$),

$$x[n] = 2 + 2 \cos(\frac{\pi nT}{2}) + \cos(\frac{\pi nT}{2}) = \frac{1}{2} \cos(\frac{3\pi nT}{2}).$$

3.30. (a) The nonzero FS coefficients of $x(t)$ are $a_n = 1$, $a_n = a_{-n} = 1/2$.

(b) The nonzero FS coefficients of $x(t)$ are $b_n = b_{-n} = e^{-j2\pi nT}/2$.

(c) Using the multiplication property, we know that

$$x[n] = x[n] \cdot 1, \quad a_n = \sum_{k=-\infty}^{\infty} a_k b_{n-k}.$$

This implies that the nonzero Fourier series coefficients of $x[n]$ are $a_n = \cos(\pi nT/2)$, $a_n = a_{-n} = e^{-j2\pi nT}/2$, $a_n = a_{-n} = e^{-j2\pi nT}/4$.

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(c) Using the multiplication property, we know that

$$x(t) = x(t) \cdot 1, \quad a_n = \sum_{k=-\infty}^{\infty} a_k b_{n-k}.$$

Therefore,

$$a_n = a_n + b_n = \frac{1}{2} \delta[n - 2] + \frac{1}{2} \delta[n] = \frac{1}{2} \delta[n].$$

This implies that the nonzero Fourier series coefficients of $x(t)$ are $a_n = a_{-n} = (1/4)\delta[n]$.

(d) We have

$$x(t) = \cos(4t) \cos(4t) = \frac{1}{2} \cos(8t).$$

Therefore, the nonzero Fourier series coefficients of $x(t)$ are $a_n = a_{-n} = (1/4)\delta[n]$.

3.26. (a) If $x(t)$ is real, then $x(t) = x^*(t)$. This implies that for $x(t)$ real $a_n = a_{-n}^*$. Since this is not true in this case, $x(t)$ is not real.

(b) If $x(t)$ is even, then $x(t) = x(-t)$ and $a_n = a_{-n}$. Since this is true for this case, $x(t)$ is even.

(c) We have

$$x(t) = \frac{dx(t)}{dt} \cdot \frac{dt}{dt}, \quad b_n = j2\pi nT a_n.$$

Therefore,

$$b_n = \begin{cases} 0, & n = 0 \\ -4j(1/2)\cos(2\pi nT), & \text{otherwise} \end{cases}$$

Since b_n is not even, $x(t)$ is not even.

3.27. Using the Fourier series synthesis eq. (3.26),

$$\begin{aligned} x[n] &= a_0 + a_1 e^{j2\pi nT} + a_{-1} e^{-j2\pi nT} + a_2 e^{j4\pi nT} + a_{-2} e^{-j4\pi nT} + a_3 e^{j6\pi nT} + a_{-3} e^{-j6\pi nT} \\ &= 2 + 2 \cos(2\pi nT) + 2 \cos(4\pi nT) + 2 \cos(6\pi nT) + 2 \cos(8\pi nT) + 2 \cos(10\pi nT) \\ &= 2 + 2 \cos(2\pi nT) + 2 \cos(4\pi nT) + 2 \cos(6\pi nT) + 2 \cos(8\pi nT) + 2 \cos(10\pi nT) \\ &= 2 + 2 \cos(2\pi nT) + 2 \cos(4\pi nT) + 2 \cos(6\pi nT) + 2 \cos(8\pi nT) + 2 \cos(10\pi nT) \end{aligned}$$

3.28. (a) $N = 7$,

$$a_n = \frac{1}{2} e^{j\pi nT} \frac{\sin(2\pi nT/2)}{\sin(\pi nT/2)}$$

(b) $N = 6$, a_n over one period ($0 \leq n \leq 5$) may be specified as: $a_n = a_n/6$.

$$a_n = \frac{1}{6} e^{j\pi nT} \frac{\sin(\frac{2\pi nT}{2})}{\sin(\frac{\pi nT}{2})}, \quad 0 \leq n \leq 5.$$

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(c) We have

$$\begin{aligned} x[n] &= \cos\left(\frac{2\pi nT}{2} + \frac{\pi}{4}\right) + \cos\left(\frac{2\pi nT}{2} + \frac{\pi}{4}\right) \cos\left(\frac{2\pi nT}{2}\right) \\ &= \cos\left(\frac{2\pi nT}{2} + \frac{\pi}{4}\right) + \frac{1}{2} \left[\cos\left(\frac{4\pi nT}{2} + \frac{\pi}{4}\right) + \cos\left(\frac{\pi}{4}\right) \right] \end{aligned}$$

This implies that the nonzero Fourier series coefficients of $x[n]$ are $a_n = \cos(\pi nT/2)$, $a_n = a_{-n} = e^{-j2\pi nT}/2$, $a_n = a_{-n} = e^{-j2\pi nT}/4$.

3.31. (a) $g[n]$ is as shown in Figure 33.31. Clearly, $g[n]$ has a fundamental period of 10.



Figure 33.31

(b) The Fourier series coefficients of $g[n]$ are $b_n = (1/10)(1 - e^{-j2\pi nT/10})$.

(c) Since $g[n] = x[n] - x[n - 1]$, the FS coefficients a_n and b_n must be related as

$$b_n = a_n - e^{-j2\pi nT/10} a_n.$$

Therefore,

$$a_n = \frac{b_n}{1 - e^{-j2\pi nT/10}} = \frac{(1/10)(1 - e^{-j2\pi nT/10})}{1 - e^{-j2\pi nT/10}}.$$

3.32. (a) The four equations are

$$a_0 + a_1 + a_2 + a_3 = 1, \quad a_0 + ja_1 + a_2 + ja_3 = 0$$

$$a_0 - a_1 + a_2 - a_3 = 2, \quad a_0 - ja_1 + a_2 - ja_3 = -1$$

Solving, we get $a_0 = 1/2$, $a_1 = -1/2j$, $a_2 = -1$, $a_3 = -1/2j$.

(b) By direct calculation,

$$a_n = \frac{1}{4}(1 + 2e^{-j2\pi nT} + e^{-j4\pi nT})$$

This is the same as the answer we obtained in part (a) for $0 \leq n \leq 3$.

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