4 **L** **5.3** Find the Fourier series coefficient sequence c of each periodic function x given below with fundamental period T.

(a) $x(t) = 2\delta(t-3) + 2\delta(t-5) + \delta(t-7) - \delta(t-9) + 3\delta(t-12)$ and $T = 16$; express c in terms of sin and cos to whatever extent is possible; and

(b) $x(t) = \delta(t) + 6\delta(t-1) + 6\delta(t-2)$ and $T = 3$; express c in terms of sin and cos to whatever extent is possible.