Tutorial 11

Q.1.

For the periodic waveform $f(t)$ represented in Fig. 18.29, calculate a_1, a_2, a_3 and b_1, b_2, b_3.

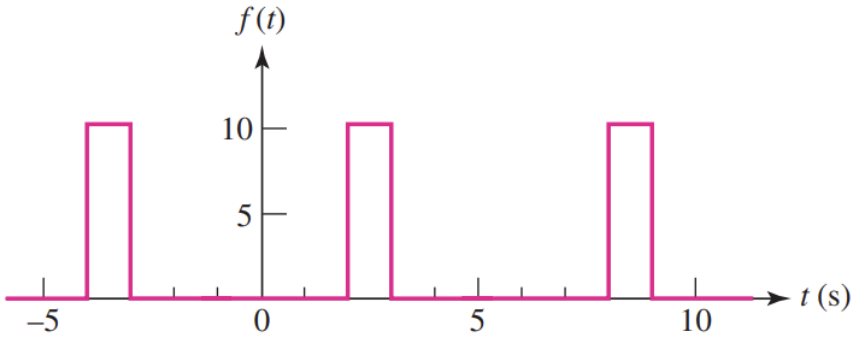

FIGURE 18.29

Q.2

Calculate a_0, a_1, a_2, a_3 and b_1, b_2, b_3 for the periodic waveform $v(t)$ represented in Fig. 18.31.

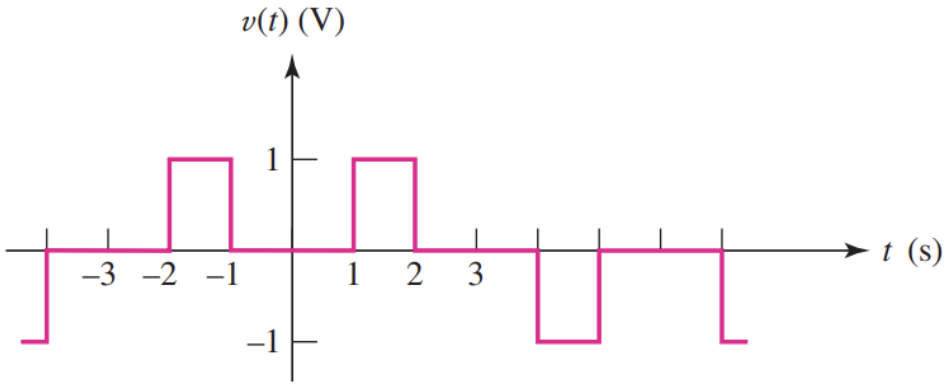

FIGURE 18.31

Q.3.

Make use of symmetry as much as possible to obtain numerical values for a_0, a_n, and b_n, $1 \leq n \leq 10$, for the waveform shown in Fig. 18.32.

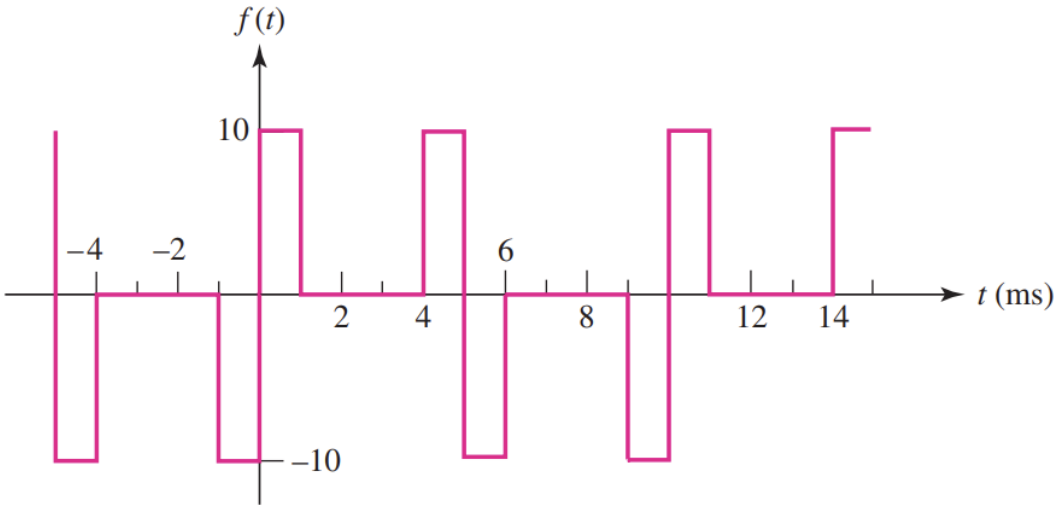

FIGURE 18.32

Q.4.

If the waveform shown in Fig. 18.34 is applied to the circuit of Fig. 18.8*a*, calculate $i(t)$.

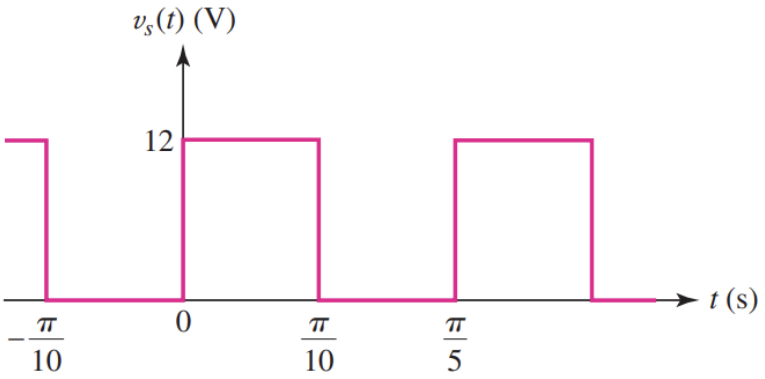

FIGURE 18.34