ECET341 Homework 8

(1) Find the Fourier series for the periodic signal shown in Fig. 1.

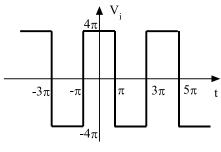


Fig. 1.

(2) The periodic square-wave voltage seen in Fig. 1 is applied to the circuit shown in Fig. 2. Derive the steady-state voltage $V_0(t)$ as a response to the first two nonzero terms in the Fourier series that represents the V_i .

