Chapter 7, Solution 25.

Design a problem to help other students to better understand singularity functions.

Although there are many ways to work this problem, this is an example based on the same kind of problem asked in the third edition.

Problem

Sketch each of the following waveforms.
  (a) $i(t) = [u(t–2)+u(t+2)]$ A
  (b) $v(t) = [r(t) – r(t–3) + 4u(t–5) – 8u(t–8)]$ V

Solution

The waveforms are sketched below.

(a)

(b)