Chapter 7, Problem 24.

Express the following signals in terms of singularity functions.

(a)
$$v(t) = \begin{cases} 0, & t > 0 \\ -5, & t > 0 \end{cases}$$

(b)
$$i(t) = \begin{cases} 0, & t < 1 \\ -10, & 1 < t < 3 \\ 10, & 3 < t < 5 \\ 0, & t > 5 \end{cases}$$

(c)
$$x(t) = \begin{cases} t-1, & 1 < t < 2 \\ 1, & 2 < t < 3 \\ 4-t, & 3 < t < 4 \\ 0, & \text{Otherwise} \end{cases}$$

(d)
$$y(t) = \begin{cases} 2, & t < 0 \\ -5, & 0 < t < 1 \\ 0, & t > 1 \end{cases}$$