Chapter 7, Problem 34.

Evaluate the following derivatives:

(a) $\dfrac{d}{dt}\big[u(t-1)u(t+1)\big]$

(b) $\dfrac{d}{dt}\big[r(t-6)u(t-2)\big]$

(c) $\dfrac{d}{dt}\big[\sin 4t\,u(t-3)\big]$