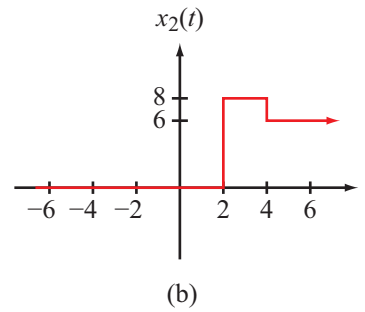**Problem 1.20** Generate plots for each of the following step-function waveforms over the time span from -5 s to $+5$ s:

(a) $x_1(t) = 8u(t-2) + 2u(t-4)$

(b) $x_2(t) = 8u(t-2) - 2u(t-4)$

(c) $x_3(t) = -2u(t+2) + 2u(t+4)$

Solution:

(b)

(b) Up by 8 at $t = 2$, then down by 2 at $t = 4$.