Problem 1.22 Generate plots for each of the following functions over the time span from -4 s to 4 s:

(a)
$$x_1(t) = 5r(t+2) - 5r(t)$$

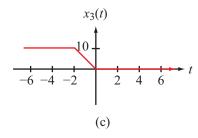
(b)
$$x_2(t) = 5r(t+2) - 5r(t) - 10u(t)$$

(c)
$$x_3(t) = 10 - 5r(t+2) + 5r(t)$$

(d)
$$x_4(t) = 10 \operatorname{rect}\left(\frac{t+1}{2}\right) - 10 \operatorname{rect}\left(\frac{t-3}{2}\right)$$

(e)
$$x_5(t) = 5 \operatorname{rect}\left(\frac{t-1}{2}\right) - 5 \operatorname{rect}\left(\frac{t-3}{2}\right)$$

Solution:



(c) Starting at 10, ramps down with slope -5 at t = -2, then levels off at t = 0.