Gabriel Emerson glesson HW4 2.8.) a) Jult) Ic ysteplt) Te=RC x(t) = -2r(t) + 4r(t-2) - 2r(t-4)y(t)=-2[t+r(e/2-1)]u(t) +4[t-2+2(et-xi-1)]u(t-2) -2[t-4+2(et-4/21-1)]u(t-4) Volts (t) = 2r(t) - 4r(t-2) + 2r(t-6)y(t)=2[t+2.(e+2.(+)) u(t) -4/t-2+2 (et 2/2 -1) u(t-2) +2[t-6+2c(et-6)/20-1)]u(t-6) 2.9) c.) $x_{s}(t) = 3u(t-2) - 6u(t-6) + 3u(t-10)$ $y(t) = 3[t-2+2i(e^{(t-2)/2i}-1)]u(t-2)$ $-6[t-6+2i(e^{(t-6)/2i}-1)]u(t-6)$ +3[t-10+20(et-10)/20-1)]u(t-10)

Gabriel Emerson 7.1) a.) u[n]-8[n-3]-u[n-4] 5[n]={1,1,0,-1} d) 28[n-1]-48[n-3] y[n]={0,2,2,-2,0} 7.2) c.) nu[n] - 2[n-2]u[n-2] + (n-4)u[n-4]y[n]={1,1,-1,-1,3}