$Y(w) = ax(w) + e^{-jw}x(w) - dx(w)$ Inurse fourier transform > y[n] = 2x[n] + x[n-1] - nx[n] let % y [n] = 2x [n] + x [n-1] - nx [n] & yatn] = axatn]+xatn-1]-nxatn] Nous $\frac{43[n] = 2[x_1[n] + Bx_2[n]}{4 - n[x_1[n] + Bx_2[n]]} + [x_1[n-1] + Bx_2[n-1]]$ = XYI[n] + XYZ[n] (b) if we put if we put x[n] = x[n-c]-> y, [n] = 2x[n-c) + x[n-c-1] - [n] ex[n-c] (-: y[n-t]= 2x[n-t]+x[n-t-1]-[n-t]x[n-t]) Not time-invariant

	(c) $\alpha EnJ = SEnJ$	

	ayen] = 2SEN] + SEN-1] - n SEN]	
	JULI - COLLIT OCH IS	
	Uro] = 2	
	y[0] = 2 y[i] = 1	
	y [n] = 0 + n ≠ 1,2	