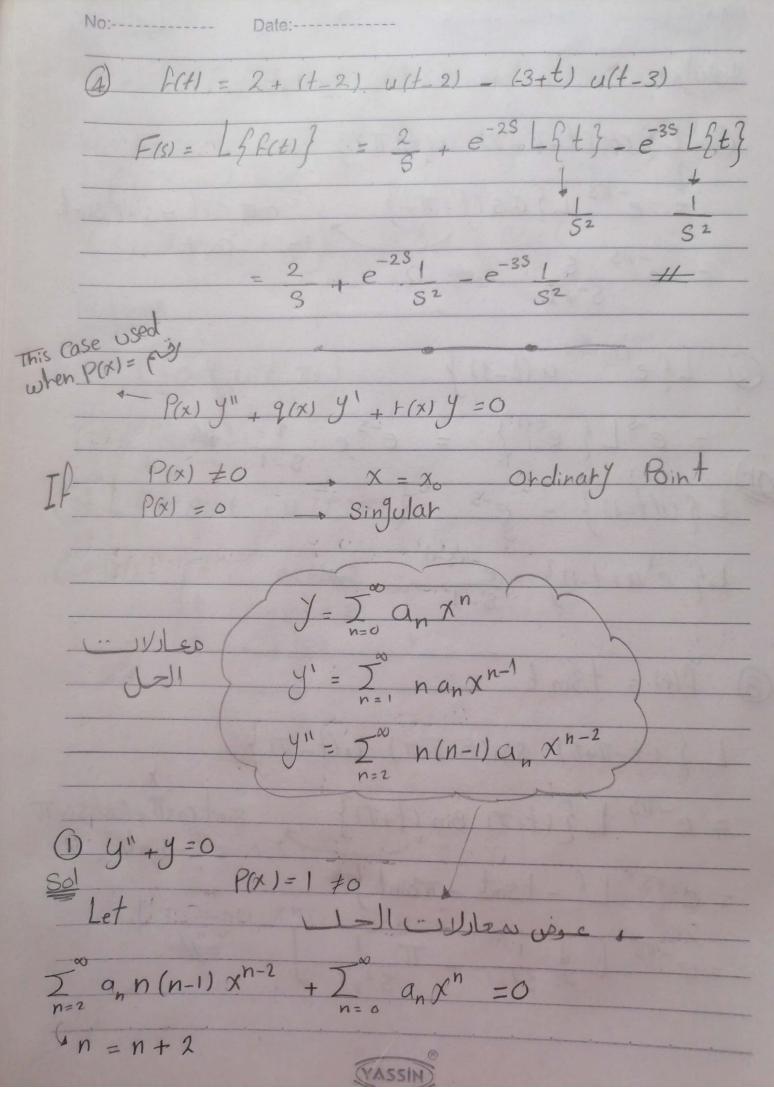
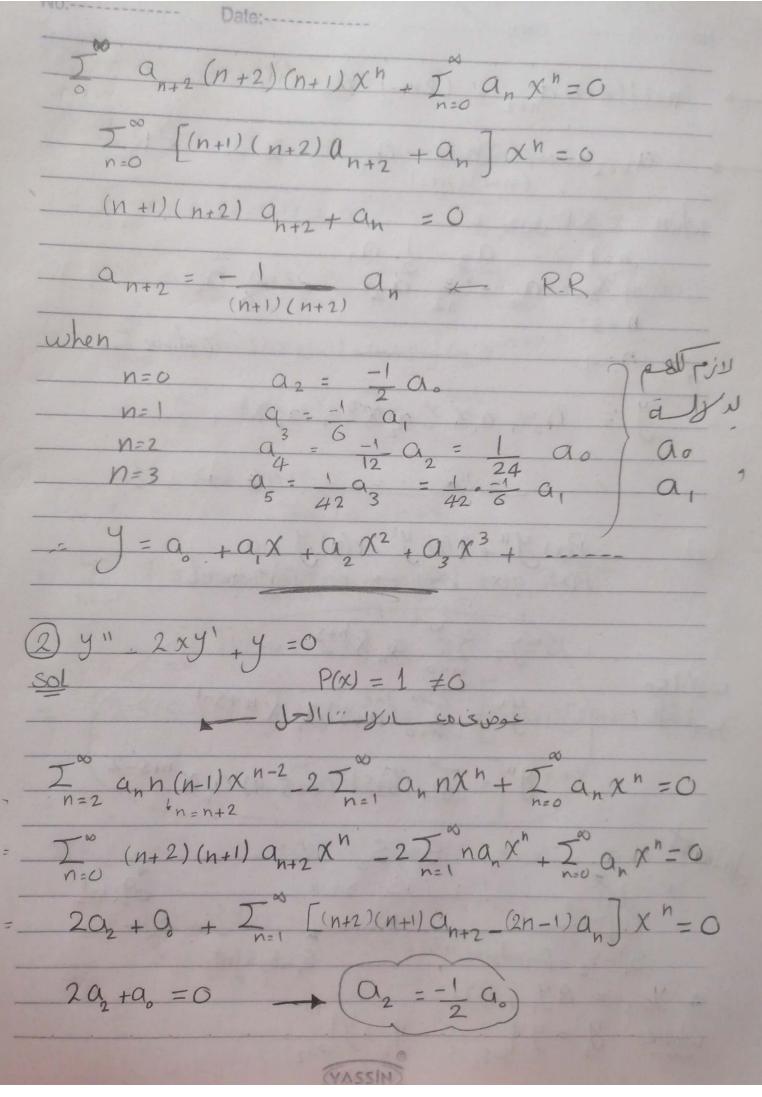
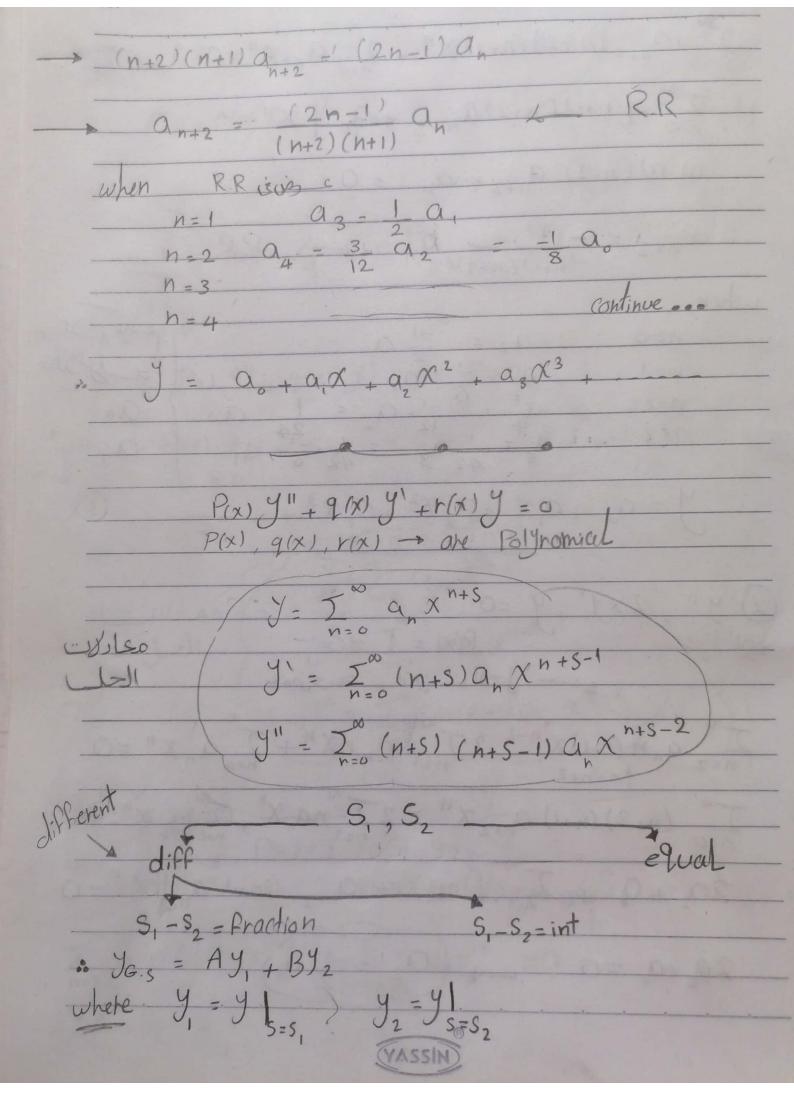


Solution Ο L 2 cos(t- π+π) u(t-π)} = e-TTS [ { cos (t+TT)} COST Get - SINTISINE Lge(+-1+1) u(t-1)}  $= e^{-s} \left[ \left\{ e^{t+1} \right\} \right] = e^{-s} e^{-1}$ 0= Lqu(t-1)3 - e-s L{ e u(t-1)} = e (5-1) f(+) = tsin t L 1 (+-11+11) Sin(t-11+11) u(t-11)  $= e^{-\pi s} \left[ \int (t+\pi) \sin(t+\pi) \right]$ Sint CosTT+Cost SinTT = e-TS Lg - + sint - TSint }  $\begin{bmatrix} \frac{d}{ds} & \frac{1}{s^2 + 1} & \frac{1}{s^2 + 1} \end{bmatrix}$ WASSIN







Date: 2xy"+ (x+1)y + 34-0 وفن في مدارلات الحل 2 I (n+s) (n+s-1) an x n+s-1 + I (n+s)an x n+s  $+ \sum_{n=0}^{\infty} (n+s) q_n \chi^{n+s-1} + 3 \sum_{n=0}^{\infty} q_n \chi^{n+s} = 0$  $\int_{-\infty}^{\infty} \left[ 2(n+s)(n+s-1) + (n+s) \right] q_n \propto n+s-1$  $\int_{-\infty}^{\infty} \left[ (n+s) + 3 \right] a_n x^{n+s} = 0$ I [2(n+s+1)(n+s)+(n+s+)]an+1x  $+ \int [(n+s) + 3] a_n x^{n+3} = 0$ = [2S(S-1)+S]  $(a_0 X^{S-1} + \sum_{n=0}^{\infty} (n+S+1)[2(n+S)+3]a_{n+1}$ + [(n+s)+3] an xn+s -> S(2S-1) =0 S=0 S= y = Ay + By by y=y s=S2 4 y = y | S = S

WASSIN

0	= - (n+3	) an	446
t S=0	(n+1) (2n	+)	
when	n=0	a, =	
	n=1	az - Continue	7 5
	N=2	(Online	
	N=3		1
	- y:	= \a, \a, \x, \a, \x^2, \a, \x^3,	7
1		0.00 (42.42.0-2+00 (44.42.4	
at S=	1		
-	_	X 27 5 2 4 (24 H r r - 1 - 1 - 4	
When	n=0	1 4 N4 D4	1
	n=1	Continue ] = AJ + B	2
	N22	G,S	
	n-3		-
	A CONTRACTOR		21
		1	Keha
	041	TX O PERMANENT	man