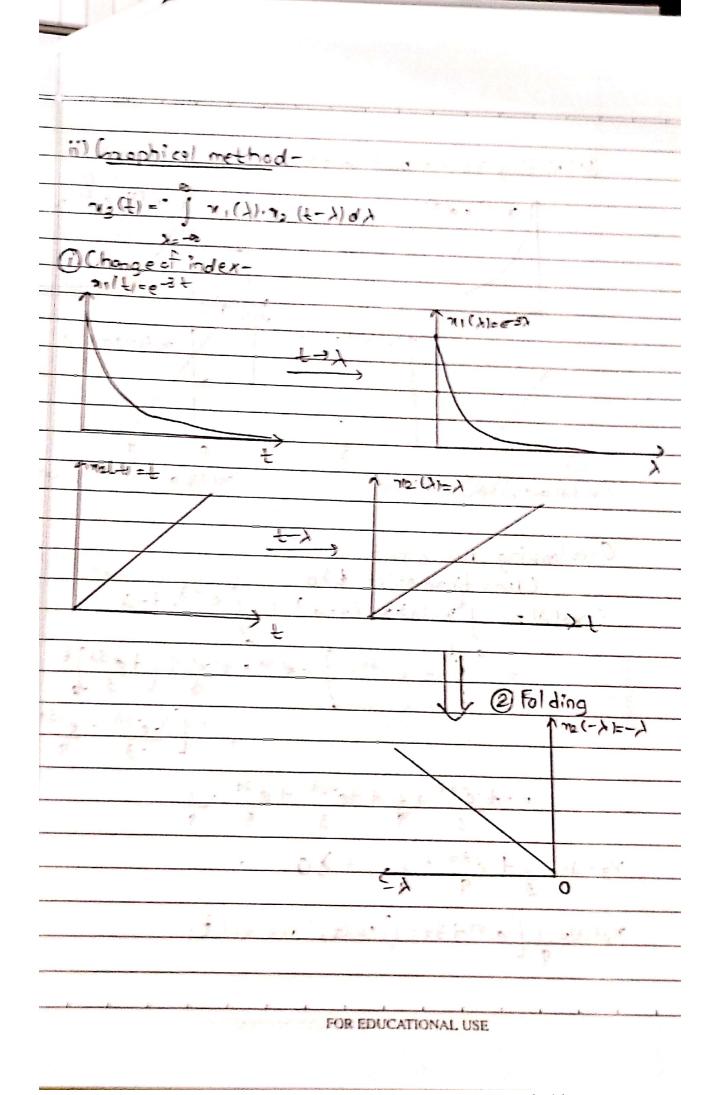
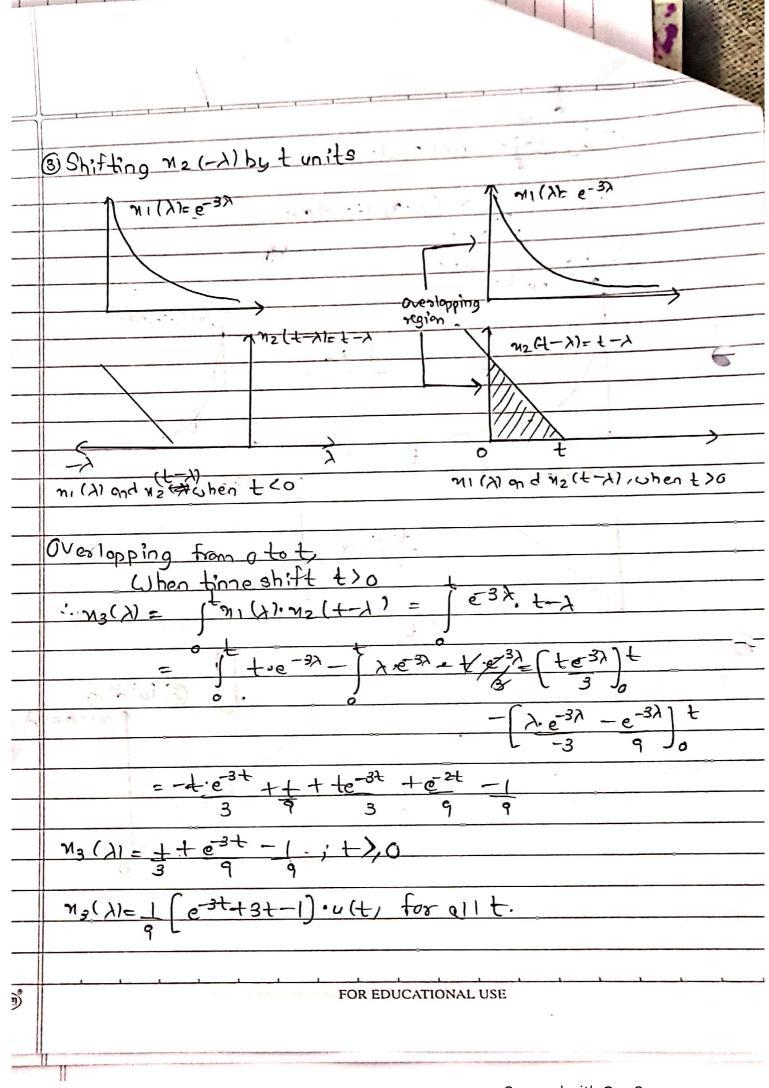
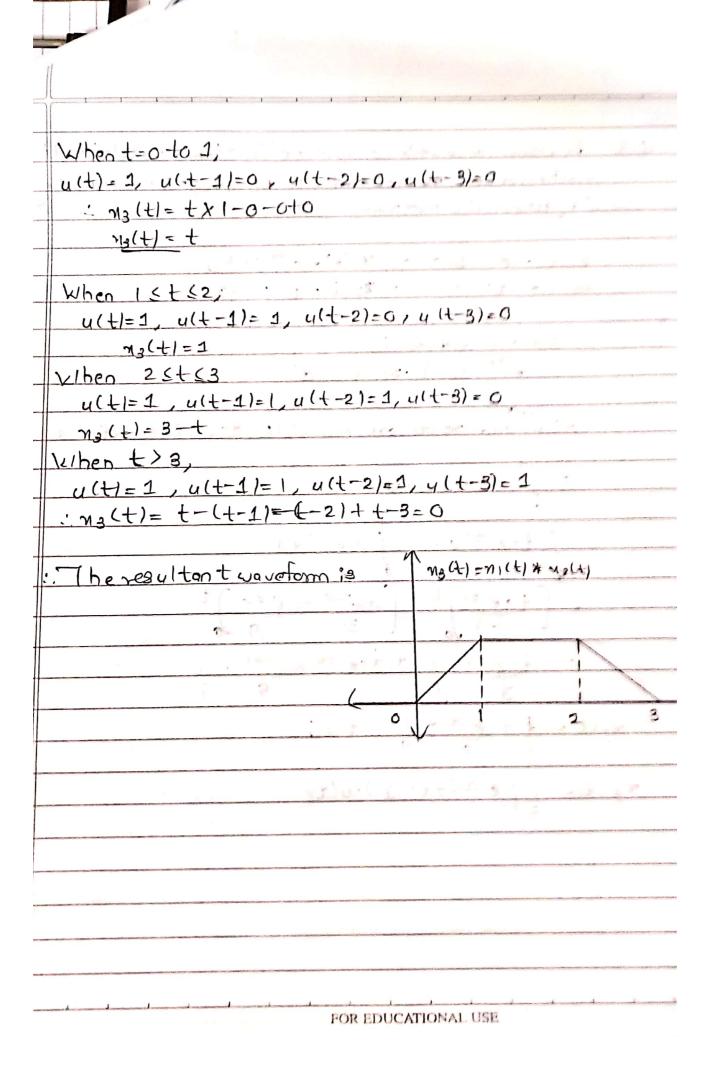
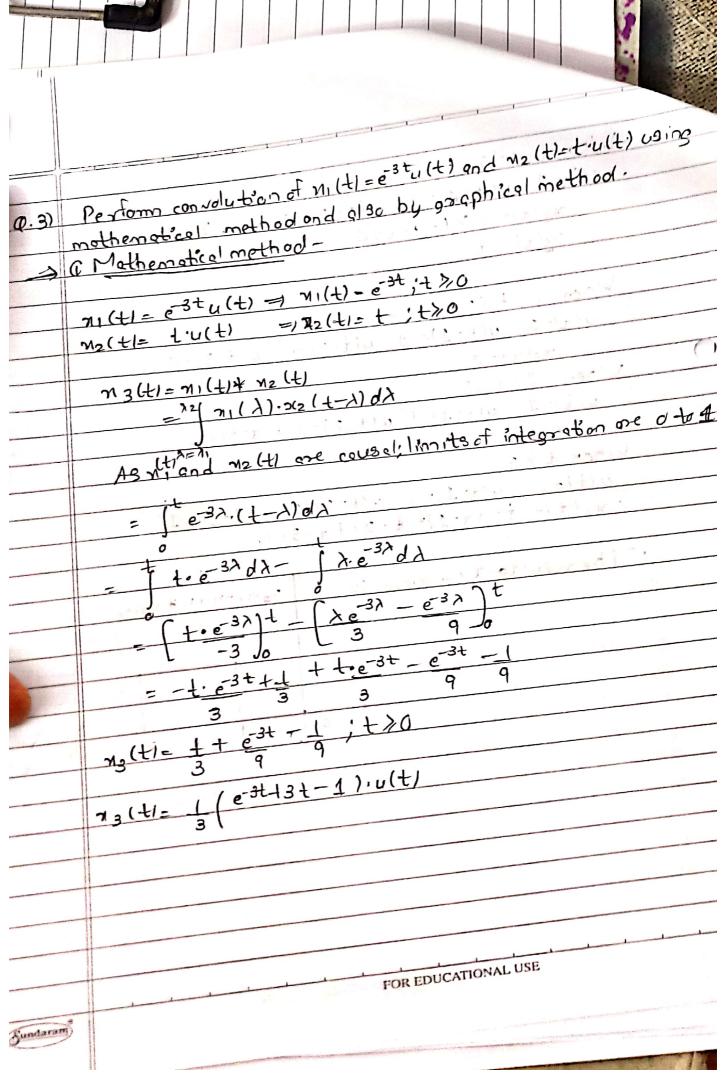
Signals and Systems Tutorial No. 4) u(n) with h(n)=(1) u(n) using convolution formula. Using convolution sumfamula; y(n) = & n(k). h(n-k) $\frac{2}{5}\left(\frac{2}{3}\right)^{k}\cdot u(k)\cdot u(n-k)$

Perform convolution of M1(t) and M2(t) using consolution theorem and sketch resultant waveform. Where (2) 71 (t1=4(t1- u(t-1) $\gamma_2(t) = u(t) - u(t-2)$ Solution 71(t)= u(t1-u(t-1) Using Loploce Theorem, $\chi_1(g) = L \int \chi_1(t) dt = L \int u(t) - u(t-1) dt$ $\chi_1(g) = \int -e^{-s}$ n2 (t)= u(t)-u(t-2) X2(9) = L{n2(t)} = L{u(t)} = L{u(t-2)} Consolution theorem of Laplace Theorem, Lf n1(+) * n2(+) = X1(3): X2(3) $= \frac{1 - e^{-29} - e^{-5} + e^{-39}}{5^2 + 5^2}$ m3(t)= m1(t)+ m2(t)=1-151-e-29-e-3+e-35. Using (Lf(t-a).4(t-a))= e-0) 73(+)= tu(+)- (+-1)-4(+-1)- (+-2)4(+-2)+(+-3).4(+ FOR EDUCATIONAL USE Sundaram)



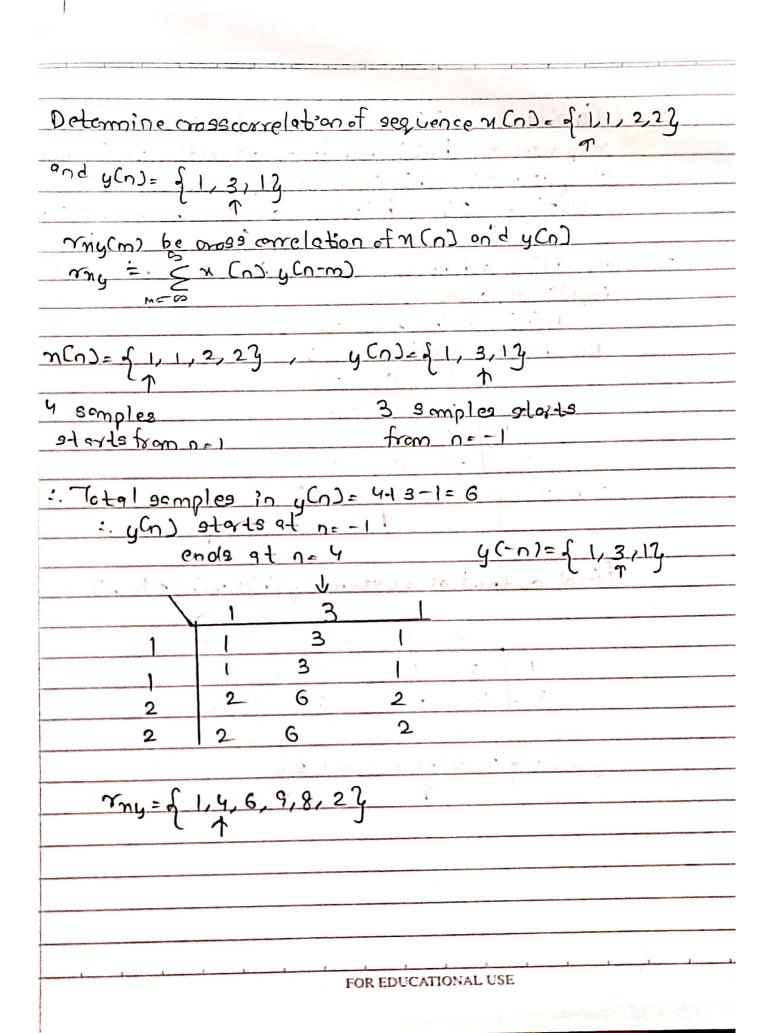






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Write notes on relation of ESD, PBD with outo	correlation			
- haila has it we have be will sent a				
? Relation of ESD to auto correlation:				
8	(1			
Rnn(T) = In(+)·n(+-T) dt = y(T)*y(-T)	h. 1			
F(Rmm(7))= X(w). X(-w) = X(w). X*(w)				
$= \chi(\omega) ^2$	• • • •			
= 4n(w)	7.05			
Rnn (7) - Un (w) - Rnn (7) and ESD make	Con lot			
Fourier transform pass.	- Gental			
ii) Relation of PSD to auto conceletion:	10 10 100			
7/2	91 m - 2 m			
Rmy (7) = 1:m y (+): y (+-7.)d+	1 14			
7->00 -712				
= lim 1 (x+(t),y(t-7)dt				
7-700. 7-60	29 1 28			
Ryn (7)= lim 1 (4, (7) *n+(-7))	1 4 5 1 4			
T->00 T				
F(Rmin (7)) = 1 im 1 - 1 - 1 - 1 - 1 - 1 - 1 = 1 im 1 X	7(w)·X7(w)			
7-700 T				
= lim _ 1 - 1 x y (w) 12 .				
7-100 T				
$= G_M(\omega)$				
Rmm (T) (Gm (W) -) Rmm (T) and PSD	Gy (W)			
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