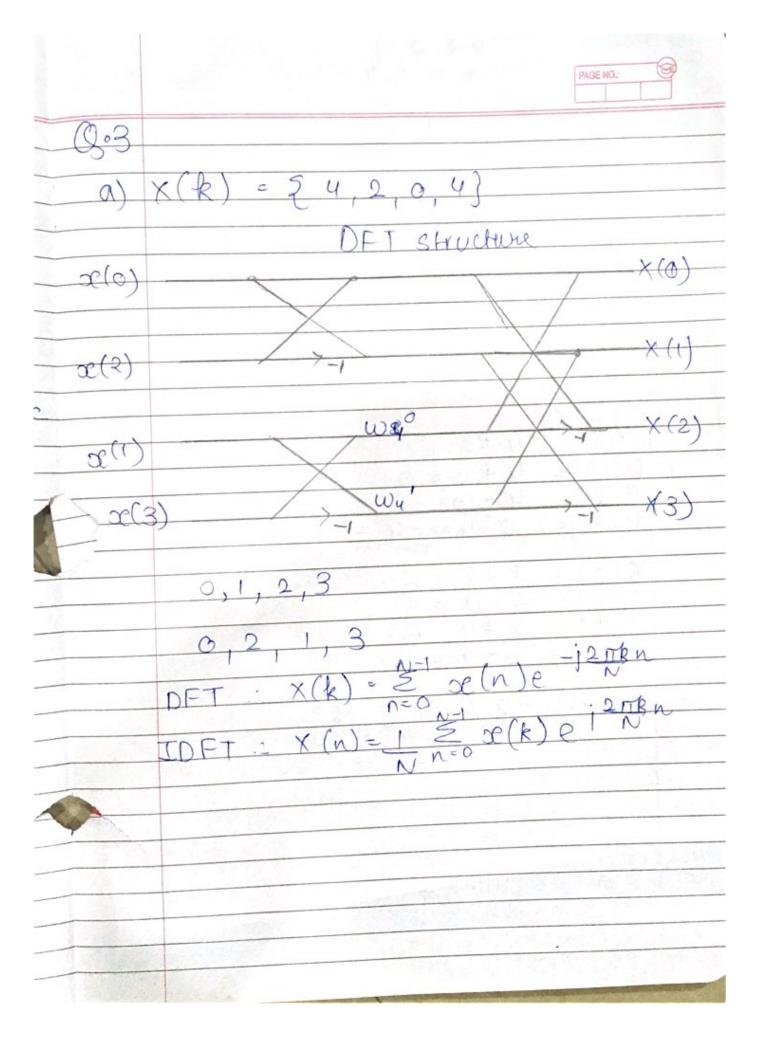


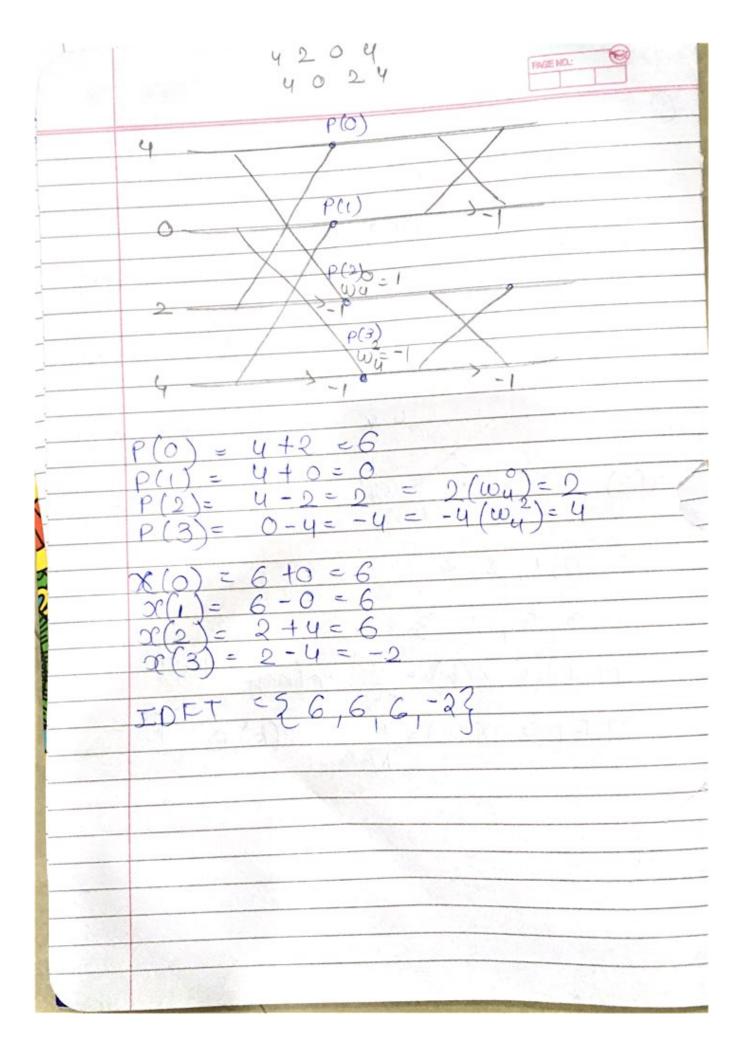
PAGE NO.: PAGE NO.: = oc(n2) + oc(-n) 1) Linear Homogeneous. Lineau Unstable Causal



(Q·2	Differences between linear and viallar convolution
		Linear Convolution
		It is done to get output of any LTI system. (Linear Time Shyanibut) which gives its input and imp- ulse response
	9	Applicable te continous and discrete time signals.
N. I.	7	In this both the sequences may are may not have equal length. sence, output can have or not may not have same samples as input.
	->	Represented as $y(n) = x(n) * h(n)$ y(n) = x(k) h(n-k).
	→ →	Output of linear complution may ou may not be periodic.
N N		It is some as linear convolution but here all the signals are
}		periodic

PAGE NO. * Applicable to both continous and time domain signals XI this both sequences must have equal length. Hence, output contains same no, of samples are input 26) is periodic output or is always periodic.





Q:3

$$x(0) = 1$$

 $x(1) = 0$
 $x(2) = 1$
 $x(3) = 0$

 $\omega_{q} = 10$ $\omega_{q} = 10$

$$P(0) = 21$$
 $P(1) = 01$
 $P(2) = 1 = (1)(1) = 1$
 $P(3) = 1 = (1)(-1) = 1$

$$x(3) = 0$$

 $x(3) = 0$
 $x(3) = 0$

IDFT = {2,0,0,24