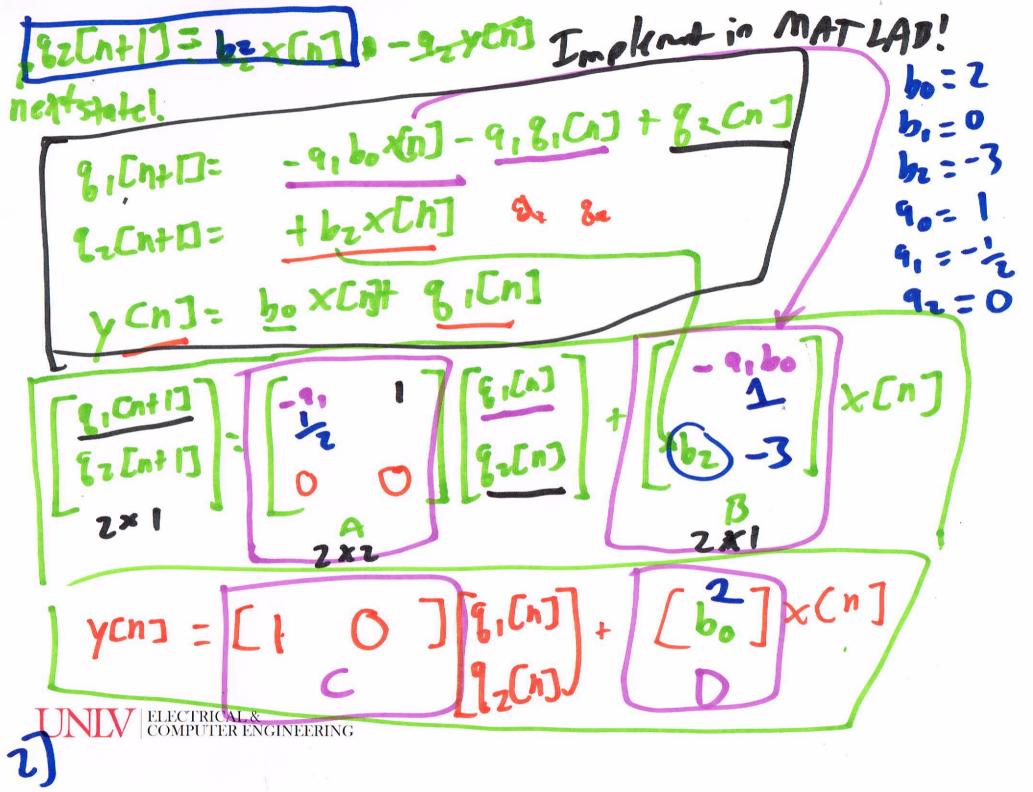
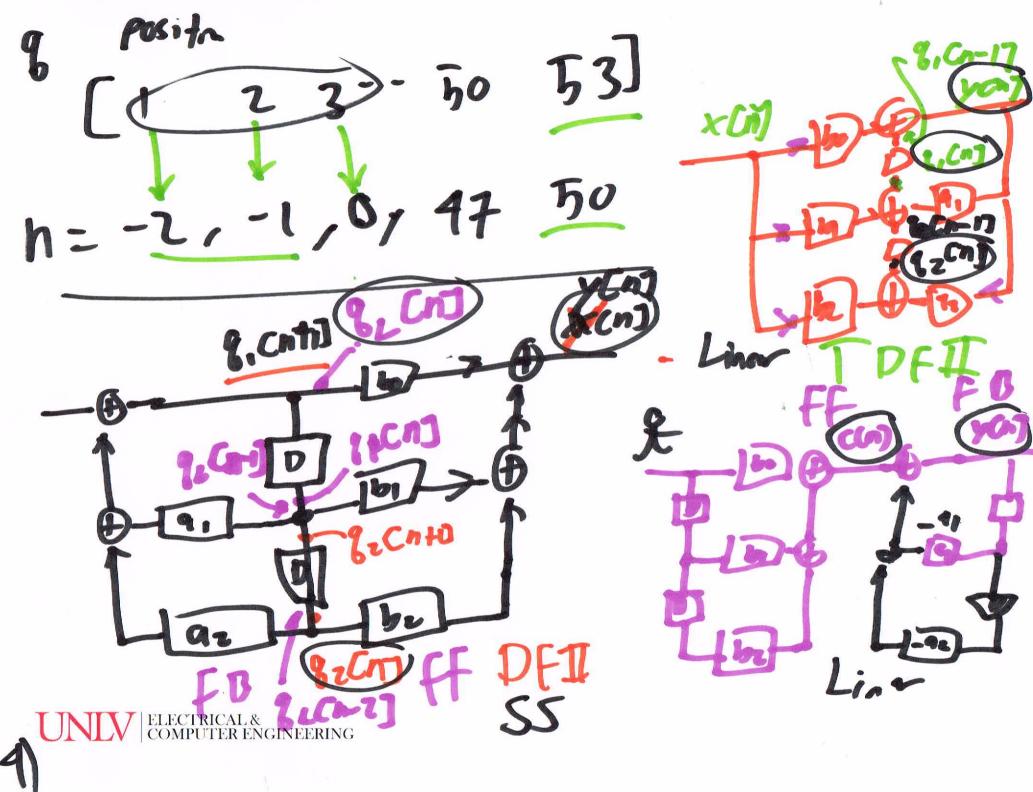
UNIV ELECTRICAL & COMPUTER ENGINEERING

	Quiz #4 EE 360 Fall 2021 Name:
	Attempt and grade yourself with a pen
-9	Show your work for credit and place boxes around your answers.
	1. Define (in written English):
	- a transformation (Guerra)
9.	le salah Asinha to Cally Element
RU	1. Define (in written English): - a transformation Charles C
0 1	110,000 = (my Loww) who 201 D
ed	2. Draw a transposed Direct Form II block diagram for the following system described by:
	n
	$3y[n] - \frac{3}{2}y[n-1] = 6x[n] - 9x[n-2]$
	Determine state equations in the form:
	26 161
40	q[n+1] = Aq[n] + Bx[n] $y[n] = Cq[n] + Dx[n]$
1	Represent your answers in matrix form.
	1 V(A-1] = 2 XCN] - 3X[N-2] b=6
1y01].	R
	- 1- 1/(n]1 h2 X[n-2]
WINT.	19. yCn-1) = b. xCn] + bzXCn-2] Gs.ins:
yen	
	= boxCn3+bzx(n-2)-a,yLn-1, az=0
Y[n]	: box Lh 3f bi
2	WAR TO THE TO Y CAT TELL
x[n]	190 / V(n)+10
	- bo - con 117 - bxcn 110 - 100
	9 (n+U-)+1.(c))+
	OPER
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	- Q. bo xCh J
	2 2 200
	OPA LINE
	12[n+1]





y(n) = T[x(n)] = x(n-n)i) is it liner?

T[axicn]] = ay(n)

Scelin! T[axicn]] = ax(n-n) X[n-ho] + xelono) - T[xich] + T[xich]

X[n-ho] + xelono) - x. [-ho] Additu! T[xit x200]

(1) Linewity (ii) Cawvolity - cont see the future!

No Pluss! VIII) merryless (iv) stability - XCM7 is bowled. iii) Blockdiagros Defintes ELECTRICAL & COMPUTER ENGINEERING

Integral! $S_{y} + Y = S_{x} + X$ $Y = S_{x} + X$ $Y = S_{x} + X - S_{y}$

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