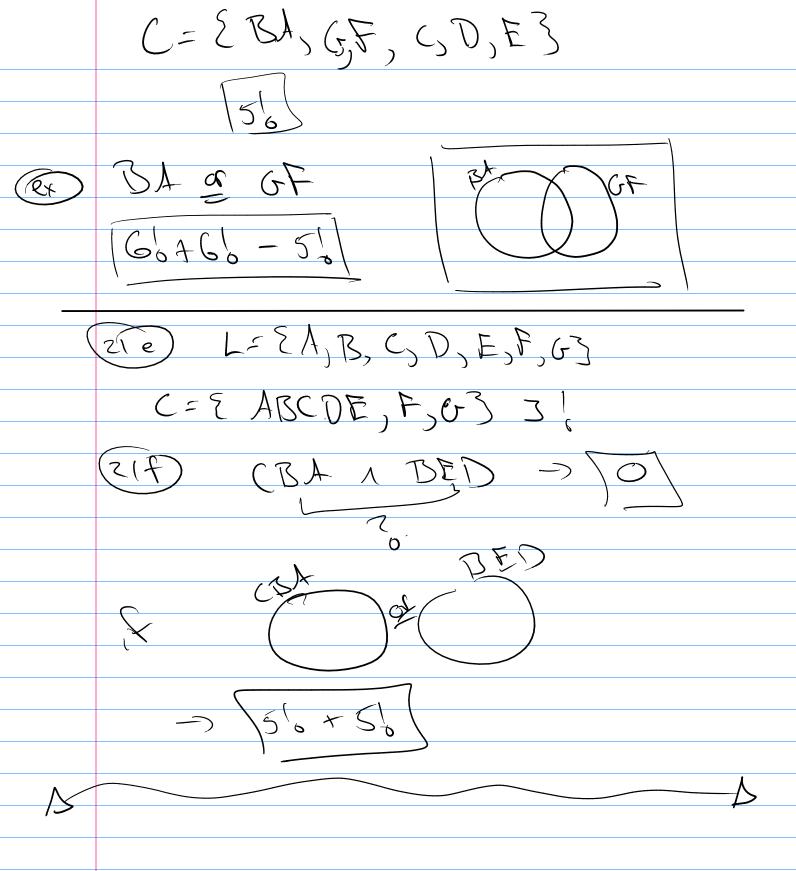
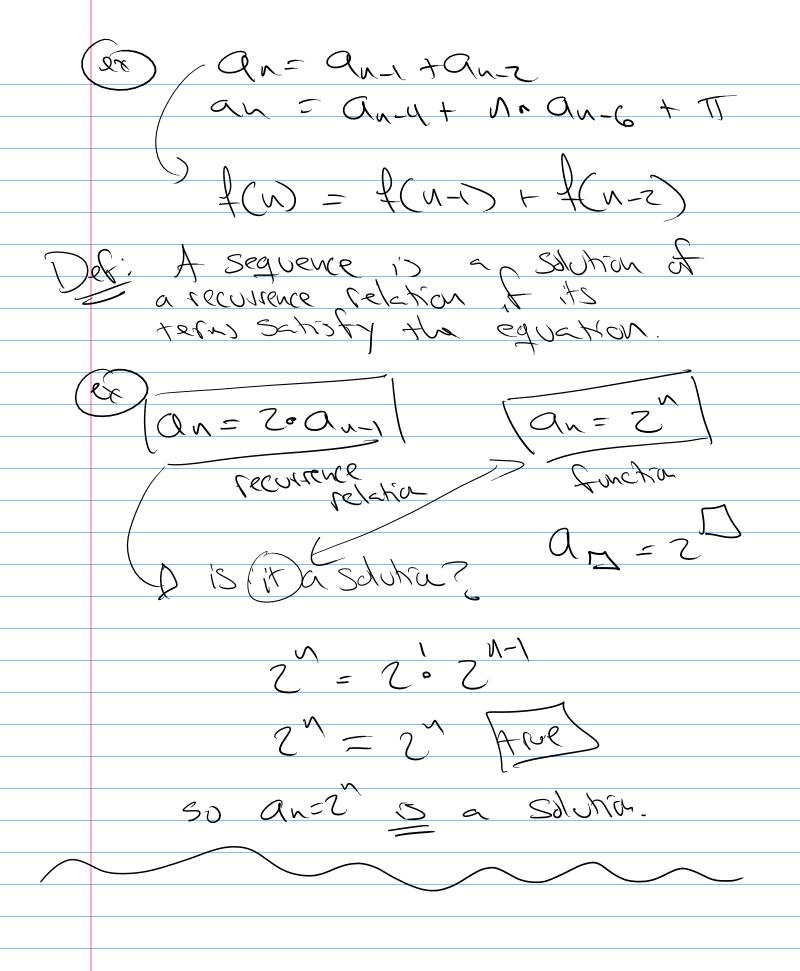
Math 321 5,3 (a) H, H, --, H, 10 H'S = 17'S [all =] 0 H'S + (1 H/+ - 7 10 H'S) 11 10 T'S + 19 TS + - 7 (0 T'S) a) 210
(exactly 2 H'S) = 101 = 45 2000 Sare T'S c) at nost 3 tails (exactly 10 H's) + (exactly 9H's) + ... + | exactly 7 H's $\begin{pmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & 1 \\ 1 & 1 \end{pmatrix}$ ED (c) L= EA, BC, D, E, F, G3 all ways = 7 how vary have BA and GF



Seguences \ Closed Functionally defined ex an = 2 n = 0,1,2, --20, 21, 25, --1,2,4,8,-.. open inductively defined Basis. Qo=1 Indukirea Rewsile 6 9 n = 2 = On-1/N=1/2) --Q = 1 a, = Z.a, = 2 recoverce relation ar= 2.01 = 9 az = 202 = 8 : A recurrence relation is an equation that expresses an in terns of previous values of the sequence



	Solving Reconner Relations.
	given the recurrence relation
	equeta
	,
	now do you find a toucken
	how do you find a function that rake the equation true?
(,	2 9. r = a + ar + ar + - +ar i=0
	$\hat{c}=0$
	$S = q + qr + qr^{2} + - + qr^{4}$ $r = q + qr + qr^{2} + - + qr^{4}$
	$rs = ar + ar + ar^2 + - + ar^{m+1}$
	15-5=arnt _a
	$S(r-1) = O(r^{N+1}-1)$
	$A = \alpha c - \alpha (\alpha + 1)$
	Tower of Hanoi

$$H_{N} = \frac{1}{2} + \frac{1}{2$$