caisin the ith prutur - starty of i=0 = <a, a, a,> <a>i+2> = ⟨a2, a3, a4, ...> UGET SHIFT 2 YU171204 5 YE E(ai) = (aixi) =(E(ai)) = E(1)(ai) = E2(ai) Mult by a combant c(ai) = (cai) (E-a)(E-b) /zi> = <1,2,4,8,16,...> = E2-(a+b) =+ab e(zi) = (zi+1) E(zi) - 2(zi) = (0) (G-2) (zi) (E-3)(E-2) (a;) = (E2-5E+6) (a;) (E-a) MINITILATES Lai) (G-b) b = a DES NOT (5-a) (ai) = E(ai) -a(ai) ANNIHILATE = (ai+1) - (ai+1) = (0)

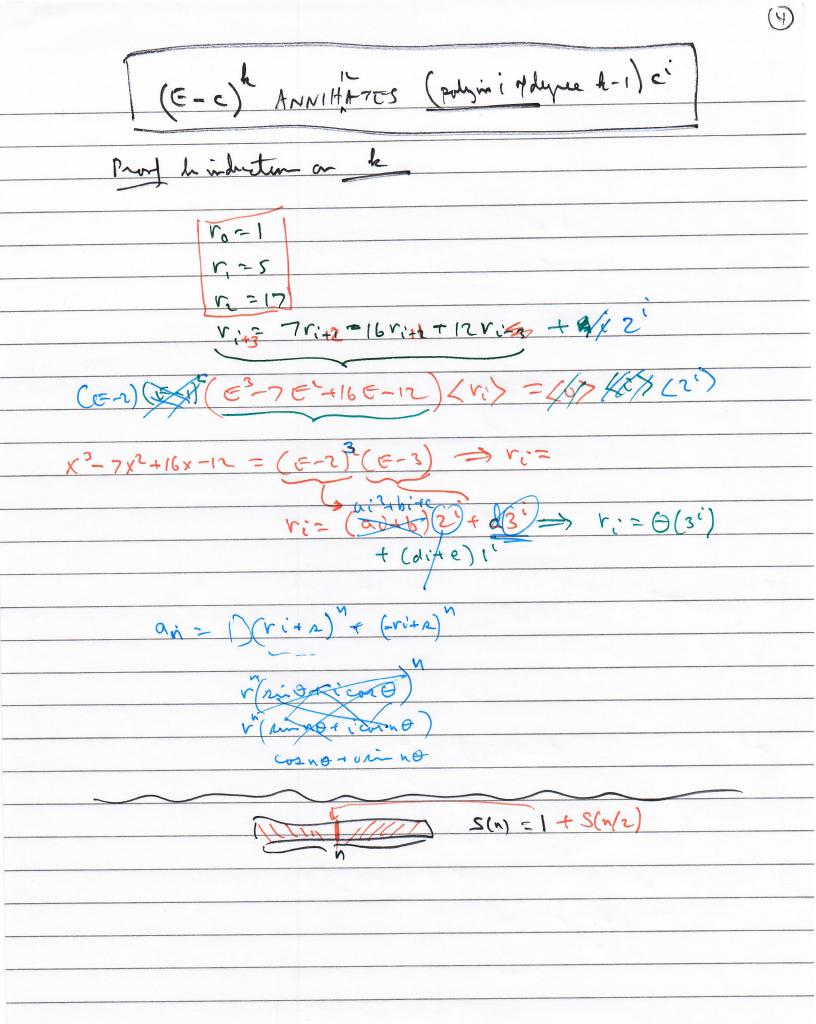
(E-a) [(E-b) < >]

MNIHILATE

powers of a and b

Fi= R-1 +Fi-2 => Fix= Fix +Fi EZFIA) = ELRIY+ IKRIY (62-E-1)(Fi)=(0) (E- 1-72) (E- 1-72) 0= 0-16 i=1 1= a (1+st) + b (1-st

E-1 ANNIHILMES (a:) A CONSTANT SECUENCE
(a:1) - (a:) = (v)
$\langle a; a, -a; \rangle = \langle o \rangle \implies \alpha; a; \forall i > 0$
(F-1)(F-1) ANNIHALATES (Ci)
$(F-1)\langle a_i \rangle = \langle c \rangle$
=> a:+1-a; = c
ain = air c
= a;-, +2c
~ a;-2+3c
- (i=1) c
\Rightarrow $a_i = c_i \Rightarrow i$
(G-O) ANMIHATES (Ci+d)
WHAT MOUT (G-2)2 (Ci2+d2i)
< (c + d) 2')
(E-2) (E-2) (ci+d) 2') = (e-2) (E-2) (ci2') + (e-1) (di
czi czi



NON -HOMOGENEOUS HUMDGENEOUS PART PART HAMMONIC NUMBERS) (In = Itan ten (=-e) 140=0