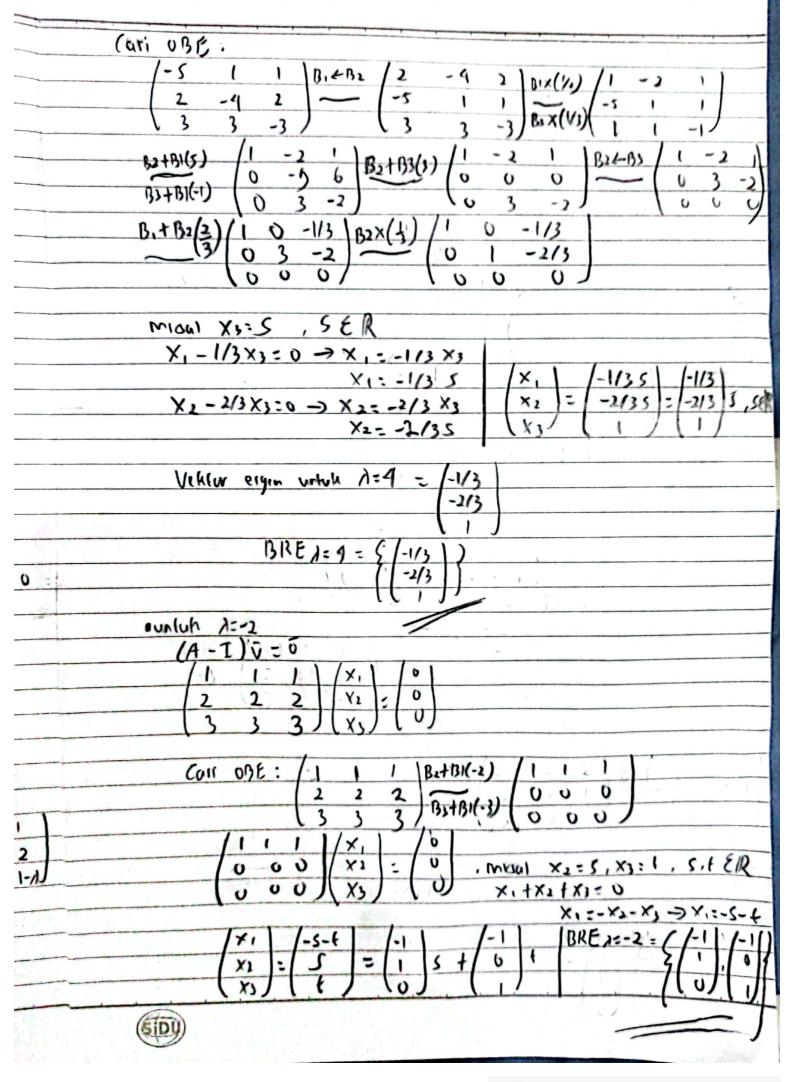
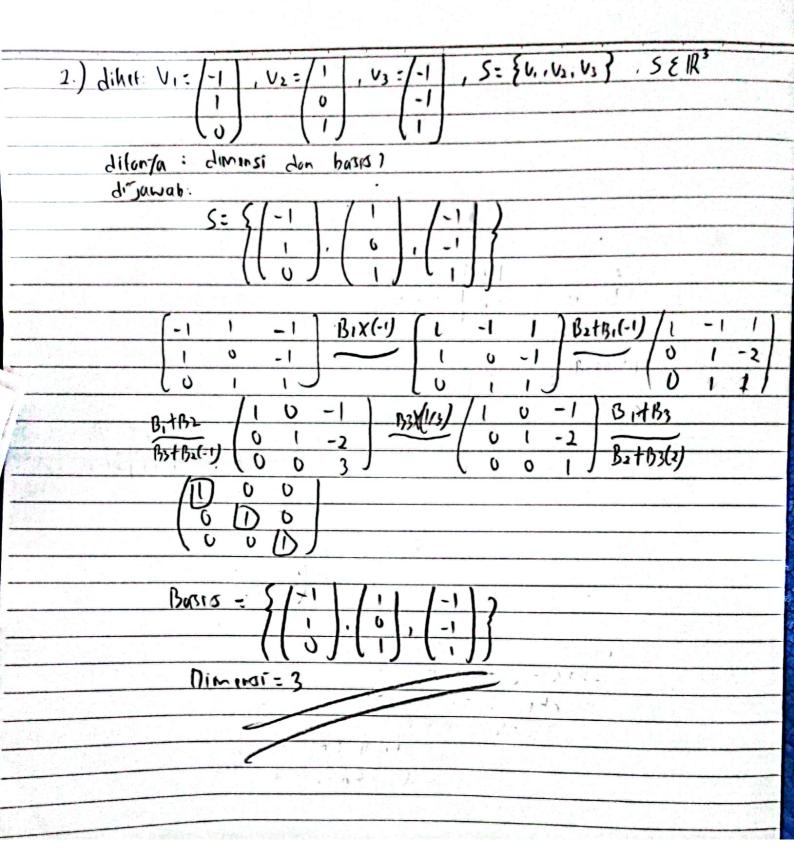
SOAL A k, a+k, b + k3C = 0 dire bich : BIEB2 Bst B= (-3) didajot: k, +ks = 0 → k2= -3ks Menufyukkan bahwa. Ki, Kz, Kz meminhi Solusi non-(vivia) Judi aibic admah Vehlor-Vehlor bergonlung

SOAL B
1.) differ: A = /-1 1 1
2 0 2
$\begin{pmatrix} 2 & 0 & 2 \\ 3 & 3 & 1 \end{pmatrix}$
ditanta: eigen Unive den eigen Velkter matritis 17
dijumab:
· eigen Value
A-71 = /-1 1 1 / / 0 0
2 0 2 - 0 1 0
(3 (3 1) (0 0 1)
= /-1-11
2 -1 2
3 3 1-2
det(A-AI) = 0
-1-A   1   1
2 -7 3 = 0
3 3 1-1
Ekasansi harra 2:
-2 -1 1 -2 -1 1 -2 -1 1 =0
3 1-1 3 1-1 3 3
-2[(1.(1-A))-3]-> [(-1-A)(1-A)-3]-2[(1-A)(3)-3]=0
$(-3)(1-\lambda-1)-\lambda(-1+\lambda-\lambda+\lambda^2-3)-12(-3-3\lambda-3)=0$
$-2(-\lambda-2)-\lambda(-4+\lambda^2)-2(-3\lambda-6)=0$
121+9+91-13+61+12=0
-13+12/1+16=0
(s+k) (r-k) -
×1=9, 12=-2, 13=-2
· aigen vector
A-AI =  -1
202-0002-2-2
(3 3 1/(0 0 1) (3 3 1-1)
· unlun 1=4
$(A-I)\hat{\mathbf{v}}=\hat{\mathbf{v}}$
$\left(-\frac{5}{1},\frac{1}{1},\frac{1}{2},\frac$
2 -1 2 1 1 1
$(3 \ 3 \ -3)(x_i)$





S = { U, . V. . U; } , S EIR -) & (th organization) Lu,, V2> = V, V2= button ortugeral . 3 and huton orturormal r Gram-Schnidt u,= V, = /-1 110,11 = JEP+12+02 114211=1(112)+(112)+12 - 5(1/9)+(1/4)+1 43: V3- 2V3,412 1/2 0 114311= VED+1-11-412

