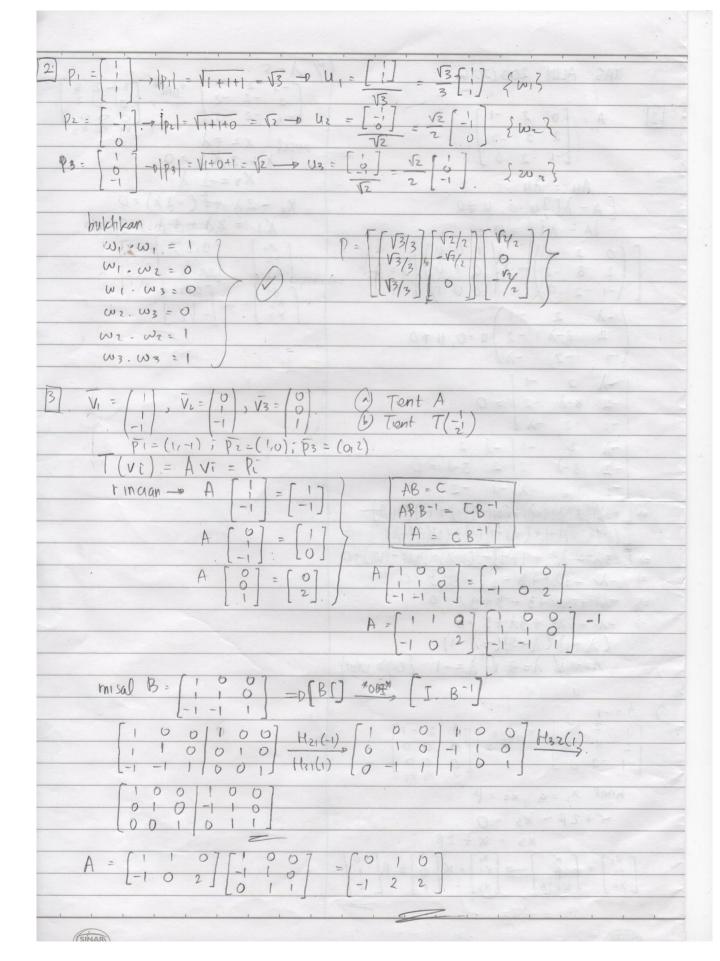
UAS ALIN 2015/2016	14 X=5
12 1101111271-1	[-5 2 -1] *OBL* [1-25]
1) A = [0 2 -1]	1 2 7 0 1 2
2 3 -2	V. V. V.
[-1 -2 0]	misal $X = \lambda$ $\lambda + 2X3 = 0$
$Au = \lambda u$	X3 = -1 X
[A-N]]u=0, u +0	X1 - 2 \ + + (-1 \) = 0
$0 =  \hat{1}   \hat{\lambda} - \lambda $	X1 = 2x + 5 \ = 3/2 x .
[10 2 -1\  100\]	[x1] [9(22)]
$\frac{1}{2} \frac{3}{3} - \frac{1}{2} - \frac{1}{2} \frac{0}{10} \frac{10}{u} = 0$	1   XL = 1
[-1-20/ 001/]	$\begin{bmatrix} x_3 \\ x_1 \\ x_2 \\ x_3 \end{bmatrix} \begin{bmatrix} 1/2 \\ x_1 \\ x_2 \end{bmatrix} = x \begin{bmatrix} 9/2 \\ 1/2 \end{bmatrix}$
/-2 -1)	XL X3 = X - Y2
$2 3-\lambda -2   u=0, u\neq 0$	
(-1 -2 -\)	(8) (1) (1) (1) (1) (1)
1-1 2 -11	El his de de de se
2 3-1 -2 = 0	101 - 101 - 111 - 7 18
1-1 -2 -\(\lambda\)	
1-λ 2 -11-λ 2	
2. 3-1 -2 2 3-1 = 0	A - Style - Lead F
$-1$ $-2$ $-\lambda$ $-1$ $-2$	PAGT 111 A
$\Rightarrow \left[ (-\lambda)(3-\lambda)(-\lambda) + (2)(-2)(-1) + (-1)(2)(-1) \right] -$	L42   114   0   14   10   14
$\left[ (-1)(3-\lambda)(-1) + (-\lambda)(-2)(-1) + (2)(2)(-\lambda) \right] = 0$	
$\Rightarrow [3\lambda^2 - \lambda^3 + 4 + 4] - [(3-\lambda) - (4\lambda) - (4\lambda)] = 0$	04
$\Rightarrow -\lambda^3 + 3\lambda^2 + 8 - [3 - 9\lambda] = 0$	18 7 10 7 A
=5 -13 + 312 + 8 - 3 + 91 = 0	12 17 17
$\Rightarrow -\lambda^3 + 3\lambda^2 + 9\lambda + 5 = 0$	190 4 3 L 4 3
$(\lambda + 1)(\lambda - 5)(-\lambda - 1)$	
$\lambda = -1 \vee \lambda = 5 \vee \lambda = -1$ {eigen value}.	
1 1 7 1 7 1 7 Conjul value).	17   0 0 1   0 0 Min
u/	410-10-11-0-11-0-1
T1 2 -1   + -+ +1 2 -17	7 6 4 1 0 -3
2 4 -2 -066 0 0 0	(H 100 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
[-1 -2 0 ] [ 0 0 6 ]	1/47 [1 0 0 [1 1= 1=]
$\begin{bmatrix} 1 & 2 & -1 \\ 2 & 4 & -2 \\ -1 & -2 & 0 \end{bmatrix} \xrightarrow{\text{$\gamma$ obs}} \begin{bmatrix} 1 & 2 & -1 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$ $\text{Misal } X_1 = \alpha_1 \times 2 = \beta$	100110011
$\propto +2\beta - \chi_3 = 0$	0 0 0 0 0 1 1 1 0 0 0 0
X3 = X + 2B	2 11 1 1 2 1 2 1 2 1 2 1 2 1
[X1] [X] [X] [O]	200 41 60 % MX #s) A
$\begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} x \\ \beta \\ x + 2\beta \end{bmatrix} \longrightarrow \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = x \begin{bmatrix} 0 \\ 1 \end{bmatrix} + \beta \begin{bmatrix} 0 \\ 2 \end{bmatrix}$	Tary 2 (4 to 1 to 0 1 - 1
The Tratable Tast [1] [5]	INCLUDE TO THE PARTY OF THE PAR



```
(-1) =D (-1,1) = P4 = (-1,1)
                      T[x,y, 2] = [0x-2y-2, 2x +4y +12,
                                        1 x + 3 y + 2 ]
        tent bans & dimens dr wang may & scenel 1
                = 0x-2y-2, 2x+uy+12. 1x+3y+2
   Image (T)
        T(R1) = T/
                      \begin{bmatrix} 1 \\ 0 \end{bmatrix} = (0, 2, 1)
    4/ mementukan bans & dimensi , og OKE
       \begin{bmatrix} 0 & 2 & 1 \\ -2 & 4 & 3 \\ -1 & 1 & 1 \end{bmatrix} \xrightarrow{k_{21}(1)} \begin{bmatrix} 0 & 2 & 1 \\ -2 & 2 & 1 \\ -1 & 0 & 0 \end{bmatrix} \xrightarrow{k_{23}(-7)}
         demons Image (T) = rank(A) = 2
           basis (mage (T) = f [-2
(ii) Vernel (T)
      ambil - u c ker (T).
             [u, ] => T(u) = Au = 0
     [0 2 17 [U1]

-2 4 3 [U2] = 0 (SPL Homogen)
  disclaration do OBE.
        0 2 1 H23(-2) 0 2 1 H12(-1)
-2 4 3 -1 1 1 -1 1
                                                           000
                                          0 0 0 H32(-1)
        -111
                                                           L-1-10
                                                            U1 U2 U3
      misal. 42 = 1 / 43 = - 1.
     42+43 =0
      Us = - Uz . -
     - U1 - U2 = 0. T. U1 = - X
       U1 = -U2 -
```