#1-1.						
-1017						
$A = \begin{bmatrix} 1 & 0 & 1 \\ 0 & 2 & 3 \\ 0 & 0 & 3 \end{bmatrix}$						
$det(A) = A = \sum_{j=1}^{3} (-1)^{j+j} a_{ij} det i$	A _{IJ}					
$= 2. \det \left(\begin{bmatrix} 2 & 3 \\ 0 & 3 \end{bmatrix} \right).$		([%3])				
= 2.6 - 1.0 to = 1	2					
기하학적으로 부피의 의미를 기원						
# 1-2.						
A χ = λ χ						
(A-71) X=0						
: det (A-AI) =0						
$ A - \lambda I = \begin{vmatrix} 1 - \lambda & 0 & 1 \\ 0 & 2 - \lambda & 3 \\ 0 & 0 & 3 - \lambda \end{vmatrix} = (1 - \lambda)(2)$	- A)(3−A)=o					
.: λ=1,2,3						
$(A-I)_{X_{\lambda=1}} = \begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 3 \\ 0 & 0 & 2 \end{bmatrix} \begin{bmatrix} X_1 \\ X_2 \\ X_3 \end{bmatrix} = 0$	X3=0 K2+3 X3=0 → X _{N=1} 2X3=0	= [:]				
$(A-I)_{\mathcal{S}_{\lambda=2}} = \begin{bmatrix} -1 & 0 & 1 \\ 0 & 0 & 2 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = 0$	>x,=0 → X _{A=2}	*[:]				
$(A-I)_{X_{A=3}} = \begin{bmatrix} -2 & 0 \\ 0 & -12 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = 0$	Xx+3X9=0 → XX=3 °	=[🐔]				
· eigenvalue : eigenvectorit 世紀	走到					
. eigenvector: 이번 벡터에 선형변환	을 쉬했을때, 방향은 변하	제 않고 되만 변환되는	벡터			
# 2.						
Bx = λx						
(B-NI) ※ =0						
B-AI = 0 - 1 0 0 - 12(1-1)=0						
∴ λ=0, l						
⇒ D= [°°°]						
$B \not \times_{A=0} = 0 \qquad \rightarrow \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} \cdots 3)$	(1+X5=0 → XA=0 = [],	[3]				
400	X₁=0 _ ^ -					
$[\beta-1]\#_{h^{-1}} = 0 \rightarrow \begin{bmatrix} 1 & 0 & 0 \\ 0 & -1 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ 1 & 1 & 0 \end{bmatrix} \cdots = 0$	$\chi_{1=0} \rightarrow \chi_{\lambda=1} = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$					
-0-100						
P= [0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
det(p)=1p-1=[-1,00]						
105 50 00 7 50 10 7						
B = [0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P ⁻¹					

5 .							l Sform) x PCs	Pam)				,	.5 X O. 2	2								
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:~P																							
(X)=X	<u>Σ</u> ρ(જ) €X																						
			$=\frac{3}{5}$	(loga 15-1	og ₂ 3) + ;	<u>\$</u> (1%)≥	5-log <u>s</u>	2)															
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4-3.																							
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- (=)					,,,		- : J(v)															
rH —lav	e-4	rx ⁽¹⁾	uTv -	- 1-0	1	A171																	
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