42/3H9 HW-#4

2016025105 752412

· 5 차시 보고는 19 선형독립과 기자 버릇은 7

Ax=0 ezen oprise surge mul space + \$ toller

Echelan form row reduced torm special form

ox) [3 3 2 7 ex) [3 0 1 7 ex) v[3 7 + 2 [4]

olitari attorizi special former linear combination? The 17491 become space of

Ax=bel = 177 ZM 312424 bt Ael col vectorial speniolis vector space on Ist

Linear Independence (1283326)

 $C_1V_1+C_2V_2-...+C_nV_n=0$ of each $C_1=C_2=C_3-...=C_n=0$ of $V_1,V_2-...V_n=3^{k+1}$ linearly Integer lene true X truer.

部22401 7194 27日至 32年以 224 001 049 col pt是 linearly Independent で col vectorルで 2211をいれ

Rank of A.

= # of Independent cal vector = # of independent now vect = 7+3 = 24 th the to the state of the

= colspanse sist (Dim of C(A))

Span

GILL tyente THE 27 3ther linear combination 2 duy vector space 2 929

WENT

Basis vector

vector space is span of & the linearly Independent of 812 min vector

· 8244 1 1 本智好 美 12 对 2 45 至 3 元 7)

D. Orthonormal basis vector
lasis vector \$201 97 34741012 7 271501 206 789

Gram schmidt orthogopulization Orthonormal basis vector for 2842 4845 1, orthonormal basis vector 1142 3864. 2, Mital thethe mount are thethe projection xial in fine statement of projection of their मिनिन्न ४40 प्रदेश ने मा 2717 20 मिना करिन है 3. Ofered vector's 78512 Stoller of forthonormal basis vectorful spanish vector spaces projection N9(41, 526012 York 101 M23 orthonormal basis vectorit outpay 4. 鬼就是 对如素 3号 世界初色件 5. Never vector & projection 12 byers It was 12 on Trapage of parists are space 引引 粉紅型 鞋的 第二字主 似語 并对于 人名斯州 好好 到意识 0分外以 电性 新知图版正 OR 等型 Greperalized lease square nies wit for (wit probability) WAX = Wb -> AZ=6-> ATAZ=ATb= ATWTWAZ=ATWT6 Orthonormal busis \$220 col vectors 0132 metrix Q 670=I. = 67=QT ex) rotation matrix, permutation matrix OR faceorization 4=[\$\frac{6}{2} \frac{8}{2} - \frac{9}{2} \frac{1}{2} aj = \$1 (817 aj) fi orthonormal basis vectors organic materia Ax= 2x often 22 eigenverlue, x2 eigenvector2 42et (4-カx=0, (A-ZI) ナロマラダマロ かきか えとをもののはかん 3 Eservector's (A-ZZ) =1 muld space of Ct. Remark; O 2, h - had 24 2+329 Diagonalization of matrix. einer. and my independent a ch @ 52 unique on toch elgervectoriz A=LU, A=QR, A=SNS-1 ASBY & ZE BISEAVELLOW 47/L

Montest offendedor At Difference DADX, e year At Difference DADX, e year At Difference