머신러닝 한 2차. *Vector: Vector 까기 잡혀 수 있고 , Scalar를 곱한 수 있는 기체. (object) * anz,+ -- anzn= bi amiz, + - - - amnzn = bm => linear equation of the system of the solution == (Unique solution no solution infinitely solution * AB + BA * Identity Matrix = [01-0] ERmxn *matrix addition 과 multiplication의 7度约: ①Associativity AB(c) = A(Bc) @Distributivity (A+B) C = Act BC @ Multiplication with Identity matrix.

*Inverse of 只 Matrix A: Invertible, nonsing Ular
11 + 就 11 11: Singular

Transpose \Rightarrow $(A+B)^T = A^T + B^T / (AB)^T = B^T A^T$ => Symmetric Matrix: AT = A.

* salving systems of linear equation: D Elementary transformation (how operation) @ row-echelon form (⇒3) reduced row-echelon form) @ Gaussian noise.

 $\lambda \in \mathbb{R}^{5}$: $\lambda = \begin{bmatrix} 2 \\ 0 \\ -1 \\ 1 \end{bmatrix} + \lambda_{1} \begin{bmatrix} 2 \\ 7 \\ 0 \end{bmatrix} + \lambda_{2} \begin{bmatrix} 2 \\ 0 \\ -1 \\ 2 \end{bmatrix} \quad \lambda_{1}, \lambda_{2} \in \mathbb{R}.$

basic variable (pivotal of column) = 21,23,24 (particular solutions 红 알수있다) Aree variable = 72, 25 = 2, 2,