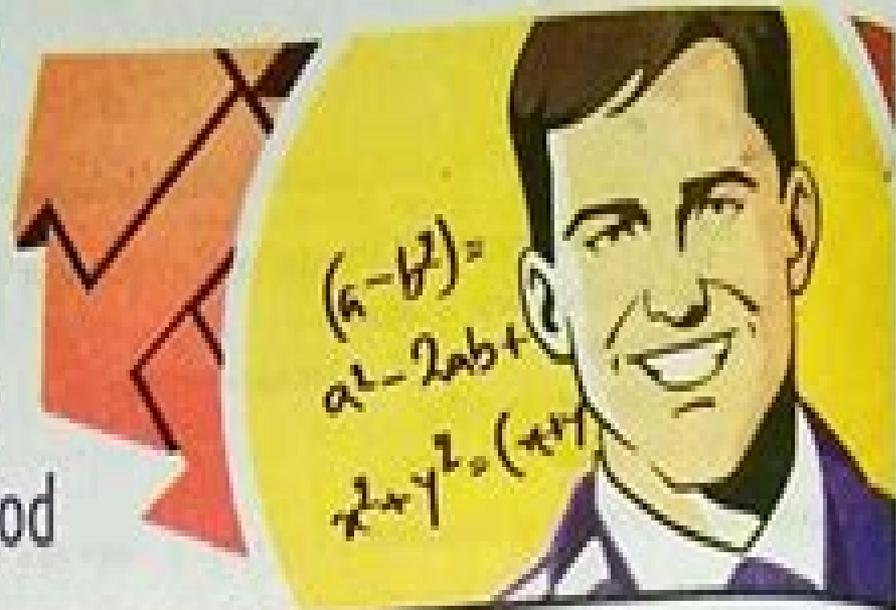




Adjoint and Inverse of a Matrix and Solution of Linear Simultaneous Equations by Matrix Method



Singular and Non-singular Matrices

Let A be a square matrix of certain order; with A we associate a determinant of the same order whose elements are the elements of the matrix A . This determinant is called the **determinant of the matrix A** and is denoted by $|A|$ or $\det. A$.

If $\det. A = 0$, the matrix A is called **singular** and otherwise i.e. if $\det. A \neq 0$, the matrix A is called **non-singular**.

$$\text{If } A = \begin{bmatrix} 2 & 3 \\ -1 & 4 \end{bmatrix}, \text{ then } |A| = \begin{vmatrix} 2 & 3 \\ -1 & 4 \end{vmatrix} = 8 - (-3) = 11 \neq 0.$$

If $A_{11}, A_{12}, A_{21}, A_{22}$ be the respective cofactors of the elements $a_{11}, a_{12}, a_{21}, a_{22}$ in $|A|$ then

$$B = \begin{bmatrix} A_{11} & A_{12} \\ A_{21} & A_{22} \end{bmatrix}$$

Hence, by definition, the adjoint of A matrix = transpose

$$\text{of } B \text{ matrix} = B^T = \begin{bmatrix} A_{11} & A_{21} \\ A_{12} & A_{22} \end{bmatrix}$$

If A be a non-singular matrix (i.e., $|A| \neq 0$), then the matrix $\frac{\text{Adj. } A}{|A|}$ is called the **reciprocal matrix** of A .

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listrik gas las listrik terak las resistensi listrik jenis mesin las busur listrik dan fungsinya macam macam las busur listrik terbagi menjadi dua bagian yaitu las listrik elektroda tak terumpan dan las listrik

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