

CHAPTER - 4^o

① $|KA| = K^n |A|$

② $|Adj^o A| = |A|^{n-1}$

③ $(A^T)^{-1} = (A^{-1})^T$

④ $(AB)^{-1} = B^{-1} A^{-1}$

⑤ $|A| = 0$; singular = inconsistent

⑥ $|A| \neq 0$; non-singular = consistent

⑦ $A^{-1} = \frac{Adj^o A}{|A|}$

⑧ $A' = A$, $B' = B$, then $(AB - BA) = \text{skew sym}$

⑨ $\Delta = \frac{1}{2} \begin{vmatrix} x_1 & y_1 \\ x_2 & y_2 \\ x_3 & y_3 \end{vmatrix}$

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