Properties of adjoint matrix

- Let $A = [a_{ij}]_n$ be a square matrix .

  $$|adj\ (A)| = |A|^{n-1}$$

  Proof:

  We know, $A\ adj\ (A) = |A| I_n$

  $\Rightarrow |A\ adj\ (A)| = ||A| I_n|$

  $\Rightarrow |A||adj\ (A)| = |A|^n$

  $\Rightarrow |adj\ (A)| = |A|^{n-1}$

  Note:

  - $|C| = |adj\ (A)| = |A|^{n-1}$

Return To Top