Properties of Inverse of a matrix

If matrix A is invertible, then

- $(A^{-1})^T = (A^T)^{-1}$

Proof :

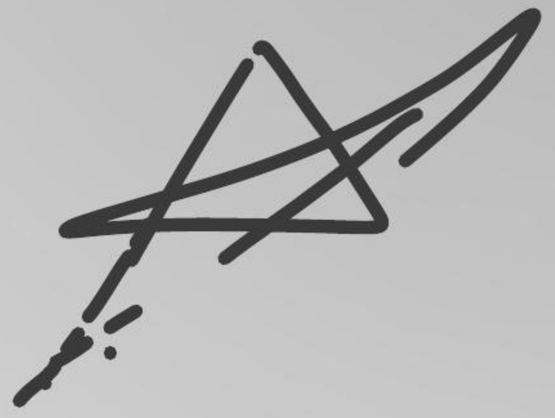
$$A^{-1} = \frac{adj\,(A)}{|A|}$$

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

$$= \frac{adj(A^T)}{|A^T|}$$

$$= (A^T)^{-1}$$

$$(adj(A))^T = adj(A^T)$$



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