If $|A|, |B| \neq 0$, then

- $adj(AB) = (adj\, B)(adj\, A)$

Proof: $(AB)^{-1} = B^{-1}A^{-1}$

$$\frac{adj(AB)}{|AB|} = \frac{adj(B)}{|B|}\frac{adj(A)}{|A|}$$

$$adj(AB) = (adj\, B)(adj\, A)$$

Note: $adj(A_1 \cdot A_2 \cdots A_n) = (adj\, A_n) \cdots (adj\, A_2)(adj\, A_1)$

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