Matrix Properties :

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

Proof :

$$(AB)^{-1} = \frac{adj(AB)}{\det(AB)}$$

Or $adj(AB) - (AB)^{-1} \cdot \det(AB) \cdots (1)$

It is also known $= (AB)^{-1} \cdot \det(AB)$

And $\det(AB) = \det(A) \cdot \det(B) \cdots (2)$

Also, $A^{-1} = \frac{adj(A)}{\det(A)}$ $B^{-1} = \frac{adj(B)}{\det(B)}$

Or $adj\ (B) \cdot adj\ (A) = \det A \cdot \det B \cdot B^{-1} \cdot A^{-1} \cdots (3)$

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