

Matrix Properties:



Proof:

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

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

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

Putting (2) in equation (1)

$$adj (AB) = \det(A) \cdot \det(B) \cdot B^{-1} \cdot A^{-1} \cdots (4)$$

From (3) and (4)

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