If A is a square matrix of order 4 and $|A| = 2$, then $\frac{1}{2}\ adj\ (5A)$ equals :

Solution:

$$\frac{1}{2}\ adj\ (5A) = \frac{1}{|A|}5^3 adj(A) \qquad \frac{1}{|A|}adj\ (A) = A^{-1}$$

$$= 5^3 A^{-1}$$

$$= 125A^{-1}$$

A A^{-1}

B $125A^{-1}$

C $50\ I$

D $\frac{5}{2}A^{-1}$

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