**Related Questions with Solutions**

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**Questions**

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**Quetion: 01**

The value of $\begin{vmatrix} 1 & 2 & 3 \\ -4 & 3 & 6 \\ 2 & -7 & 9 \end{vmatrix}$ is

A. 213
B. -231
C. 231
D. 39

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**Solutions**

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**Solution: 01**

$$\begin{vmatrix} 1 & 2 & 3 \\ -4 & 3 & 6 \\ 2 & -7 & 9 \end{vmatrix} = 1\begin{vmatrix} 3 & 6 \\ -7 & 9 \end{vmatrix} - 2\begin{vmatrix} -4 & 6 \\ 2 & 9 \end{vmatrix} + 3\begin{vmatrix} -4 & 3 \\ 2 & -7 \end{vmatrix}$$

= [27 + 42] – 2[–36 – 12] + 3[28 – 6] = 231

**Correct Options**

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**Answer:01**

**Correct Options: C**