

Evaluate the following 4×4 determinant. Use the properties of determinants to your advantage.

$$\begin{vmatrix} 3 & 12 & 1 & 1 \\ 1 & 1 & 6 & -1 \\ 0 & 0 & 1 & 0 \\ 10 & 2 & 5 & -9 \end{vmatrix}$$

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