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[> with(LinearAlgebra):
[> # First express the matrix ( N=2)
[> A := Matrix([[a, b, e, f], [c, d, g, h], [0, 0, i, j], [0, 0, k, l]])

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$$A := \begin{bmatrix} a & b & e & f \\ c & d & g & h \\ 0 & 0 & i & j \\ 0 & 0 & k & l \end{bmatrix} \quad (1)$$

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[> Determinant(A)

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$$a d i l - a d j k - b c i l + b c j k \quad (2)$$

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[> # This is the answer, the only thing now is to identify the result
[> det_a := a·d - c·b

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$$det_a := a d - c b \quad (3)$$

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[> det_b := e·h - g·f

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$$det_b := e h - g f \quad (4)$$

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[> det_c := i·l - k·j

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$$det_c := i l - k j \quad (5)$$

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[> expand(det_a · det_c)

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$$a d i l - a d j k - b c i l + b c j k \quad (6)$$

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[> # Look, same answer, thus it can be done like this.

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