

$$\begin{vmatrix}
 a & b & c \\
 a' & b' & c' \\
 a'' & b'' & c'' \\
 a & b & c \\
 a' & b' & c'
 \end{vmatrix}
 = (ab'c'' + a'b''c + a''bc') - (a''b'c + ab''c' + a'bc'')$$

Diagram illustrating the expansion of a 5x3 determinant. The first three rows are crossed out with dashed lines. Solid arrows point from the first three rows of the determinant to the corresponding terms in the first part of the expansion formula. Another set of solid arrows points from the last three rows of the determinant to the corresponding terms in the second part of the expansion formula.