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How to compute for determinant using expansion by cofactor

$$A = \begin{bmatrix} a & b & c & d \\ e & f & g & h \\ i & j & k & l \\ m & n & o & p \end{bmatrix} \quad A = \begin{bmatrix} 3 & 0 & 2 & -1 \\ 1 & 2 & 0 & -2 \\ 4 & 0 & 6 & -3 \\ 5 & 0 & 2 & 0 \end{bmatrix}$$
$$\det A = a \begin{vmatrix} f & g & h \\ j & k & l \\ n & o & p \end{vmatrix} - e \begin{vmatrix} b & c & d \\ j & k & l \\ n & o & p \end{vmatrix} + i \begin{vmatrix} b & c & d \\ f & g & h \\ n & o & p \end{vmatrix} - m \begin{vmatrix} b & c & d \\ f & g & h \\ j & k & l \end{vmatrix}$$
$$\det A = 3 \begin{vmatrix} 2 & 0 & -2 \\ 0 & 6 & -3 \\ 0 & 2 & 0 \end{vmatrix} - 1 \begin{vmatrix} 0 & 2 & -1 \\ 0 & 6 & -3 \\ 0 & 2 & 0 \end{vmatrix} + 4 \begin{vmatrix} 0 & 2 & -1 \\ 2 & 0 & -2 \\ 0 & 2 & 0 \end{vmatrix} - 5 \begin{vmatrix} 0 & 2 & -1 \\ 2 & 0 & -2 \\ 0 & 6 & -3 \end{vmatrix}$$

$\det A = 3(12) - 1(0) + 4(-4) - 5(0)$
 $\det A = 36 - 0 - 16 - 0$
 $\det A = 20$

Expansion by cofactor is used for 4x4 square matrix and larger.



Now, deal with $\frac{9x^2 - 63x + 114}{(x - 6)(x - 5)(x - 4)}$

Factor denominator: $\frac{9x^2 - 63x + 114}{x^3 - 15x^2 + 74x - 120} = \frac{9x^2 - 63x + 114}{(x - 6)(x - 5)(x - 4)}$

Form of the partial fraction decomposition is:

$$\frac{9x^2 - 63x + 114}{(x - 6)(x - 5)(x - 4)} = \frac{A}{x - 6} + \frac{B}{x - 5} + \frac{C}{x - 4}$$

Write right-hand side as a single fraction:

$$\frac{9x^2 - 63x + 114}{(x - 6)(x - 5)(x - 4)} = \frac{(x - 6)(x - 5)C + (x - 6)(x - 4)B + (x - 5)(x - 4)A}{(x - 6)(x - 5)(x - 4)}$$

Denominators are equal, so we require equality of numerators:

$$9x^2 - 63x + 114 = (x - 6)(x - 5)C + (x - 6)(x - 4)B + (x - 5)(x - 4)A$$

Expand right-hand side:

$$9x^2 - 63x + 114 = x^2A + x^2B + x^2C - 9xA - 10xB - 11xC + 20A + 24B + 30C$$

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