$$= \left( (B_{21}B_{32} - B_{81}B_{22})(\chi_{1}Y_{2} - \chi_{2}Y_{1}) + (B_{21}B_{33} - B_{31}B_{23})(\chi_{1}Y_{3} - \chi_{3}Y_{1}) + (B_{32}B_{33} - B_{32}B_{23})(\chi_{2}Y_{3} - \chi_{3}Y_{2}) + (B_{31}B_{32} - B_{31}B_{32})(\chi_{1}Y_{3} - \chi_{3}Y_{1}) + (B_{32}B_{13} - B_{12}B_{33})(\chi_{2}Y_{3} - \chi_{3}Y_{1}) + (B_{31}B_{32} - B_{31}B_{32})(\chi_{1}Y_{3} - \chi_{3}Y_{1}) + (B_{32}B_{13} - B_{12}B_{33})(\chi_{2}Y_{3} - \chi_{3}Y_{1}) + (B_{11}B_{22} - B_{21}B_{12})(\chi_{1}Y_{2} - \chi_{3}Y_{1}) + (B_{11}B_{23} - B_{21}B_{13})(\chi_{1}Y_{3} - \chi_{3}Y_{1}) + (B_{12}B_{33} - B_{22}B_{13})(\chi_{2}Y_{3} - \chi_{3}Y_{2}) \right)$$

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\end{bmatrix} - \begin{bmatrix}
X_{2}$$