

$$3a_{kml} - 3b_{imk} = 3 \left\| \begin{array}{cc|cc} -2 & 0 & 2 & -3 \\ -3 & 1 & 0 & 2 \end{array} \right\| - 3 \left\| \begin{array}{cc|cc} -3 & -1 & 0 & 3 \\ 1 & -1 & 0 & 3 \end{array} \right\| = \left\| \begin{array}{cc|cc} -6 & 0 & 6 & -9 \\ -9 & 3 & 0 & 6 \end{array} \right\| - \left\| \begin{array}{cc|cc} -9 & -3 & 0 & 9 \\ 3 & -3 & 0 & 9 \end{array} \right\| = \left\| \begin{array}{cc|cc} 3 & 3 & 6 & -18 \\ -12 & 6 & 0 & -3 \end{array} \right\|$$