$$\frac{1}{2} = \begin{bmatrix} a_{1} & b_{1} & b_{1} \\ a_{2} & b_{2} & a_{1} & b_{1} \\ a_{2} & b_{3} & a_{4} & b_{7} \end{bmatrix} = \begin{bmatrix} a_{1} & b_{1} \\ C_{1} & a_{2} & b_{3} \\ C_{1} & a_{2} & b_{3} & a_{4} \end{bmatrix} = \begin{bmatrix} a_{1} & b_{1} \\ C_{1} & b_{2} \end{bmatrix} \begin{bmatrix} a_{1} & b_{2} \\ a_{2} & b_{3} \end{bmatrix} = \begin{bmatrix} a_{1} & b_{2} \\ a_{1} & b_{2} \end{bmatrix} \begin{bmatrix} a_{1} & b_{2} \\ a_{2} & b_{3} \end{bmatrix} = \begin{bmatrix} a_{1} & b_{2} \\ C_{1} & c_{2} \end{bmatrix} \begin{bmatrix} a_{1} & b_{2} \\ c_{2} & c_{3} \end{bmatrix} = \begin{bmatrix} a_{1} & b_{2} \\ c_{2} & c_{3} \end{bmatrix} \begin{bmatrix} a_{1} & b_{2} \\ c_{2} & c_{3} \end{bmatrix} = \begin{bmatrix} a_{1} & b_{2} \\ c_{2} & c_{3} \end{bmatrix} \begin{bmatrix} a_{2} & b_{2} \\ c_{3} & c_{4} \end{bmatrix} \begin{bmatrix} a_{2} & b_{3} \\ b_{3} & c_{4} \end{bmatrix}$$

$$alct(K) = C_{1}C_{2} - C_{2}C_{3} - C_{3}C_{4} - C_{4}C_{5} \end{bmatrix}$$