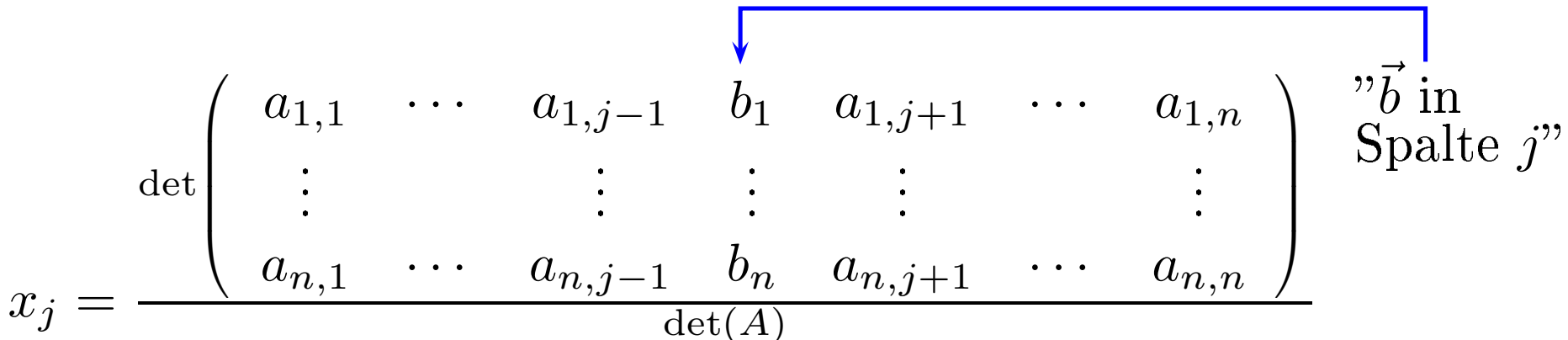
$x_j = \frac{\det\begin{pmatrix} a_{1,1} & \cdots & a_{1,j-1} & b_1 & a_{1,j+1} & \cdots & a_{1,n} \\ \vdots & & \vdots & \vdots & \vdots & & \vdots \\ a_{n,1} & \cdots & a_{n,j-1} & b_n & a_{n,j+1} & \cdots & a_{n,n} \end{pmatrix}}{\det(A)}$
"$\vec{b}$ in Spalte j"