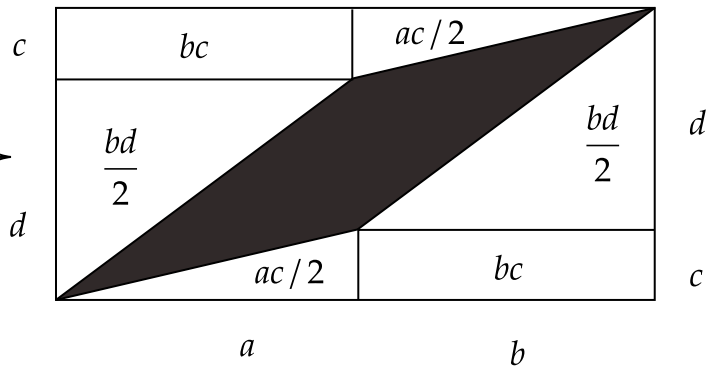
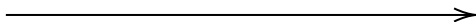


$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$



$$\det \left( \begin{bmatrix} a & b \\ c & d \end{bmatrix} \right) = (a+b)(c+d) - ac - bd - 2bc = ad - bc$$