

# determinant

Let  $A$  be an  $2 \times 2$  matrix given as  $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ .

The **determinant** of  $A$ , denoted by

$$\det(A) \text{ or } |A| = \begin{vmatrix} a & b \\ c & d \end{vmatrix}$$

is given by  $ad - bc$ .

All good, but what if  $n > 2$ ?

Then we need to define **matrix minor** and **matrix cofactor**.

matrix minor and matrix cofactor