

Def determinante

$$\det(A) \stackrel{\text{def.}}{=} \sum_{p \in P_n} \text{sign}(p) a_{p(1)}^1 a_{p(2)}^2 \dots a_{p(n)}^n$$

\parallel
 $|A|$

Esempio $n=2$

$$p_1 = (1 \ 2)$$

$$1 \cdot a_1^1 a_2^2$$

$$p_2 = (2 \overset{\curvearrowright}{1})$$

$$(-1) a_2^1 a_1^2$$

$$A = \begin{pmatrix} 5 & 1 \\ 7 & 3 \end{pmatrix}$$

$$\det(A) = 1 \cdot 5 \cdot 3 + (-1) 1 \cdot 7 = 15 - 7 = 8$$