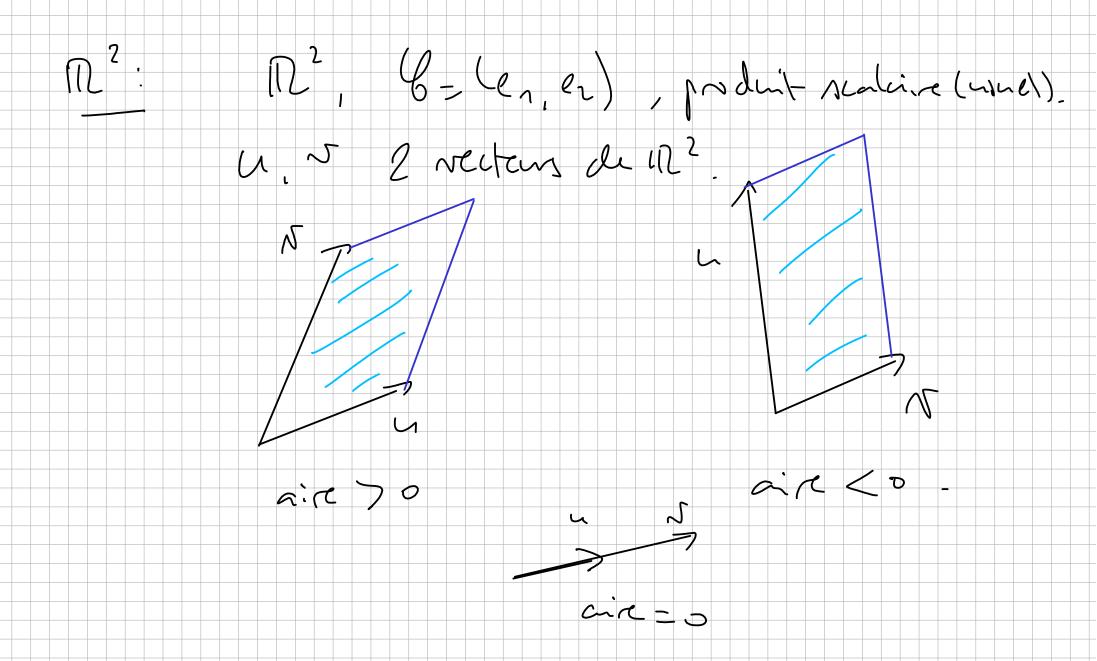
## 3.2 (fin) - Déterminant, aire, volume



webs. Dén: cas (u, 5) en une base directe u(6), v(a), c(a)

$$|u' \cdot v'| = ||u'|| \cdot ||v'||$$

$$ici \cdot u' \cdot v = (-b) \cdot (a) = ad - bc$$

$$= det_{(u,v)} \cdot v' \cdot v = ||u'|| \cdot ||v'||$$

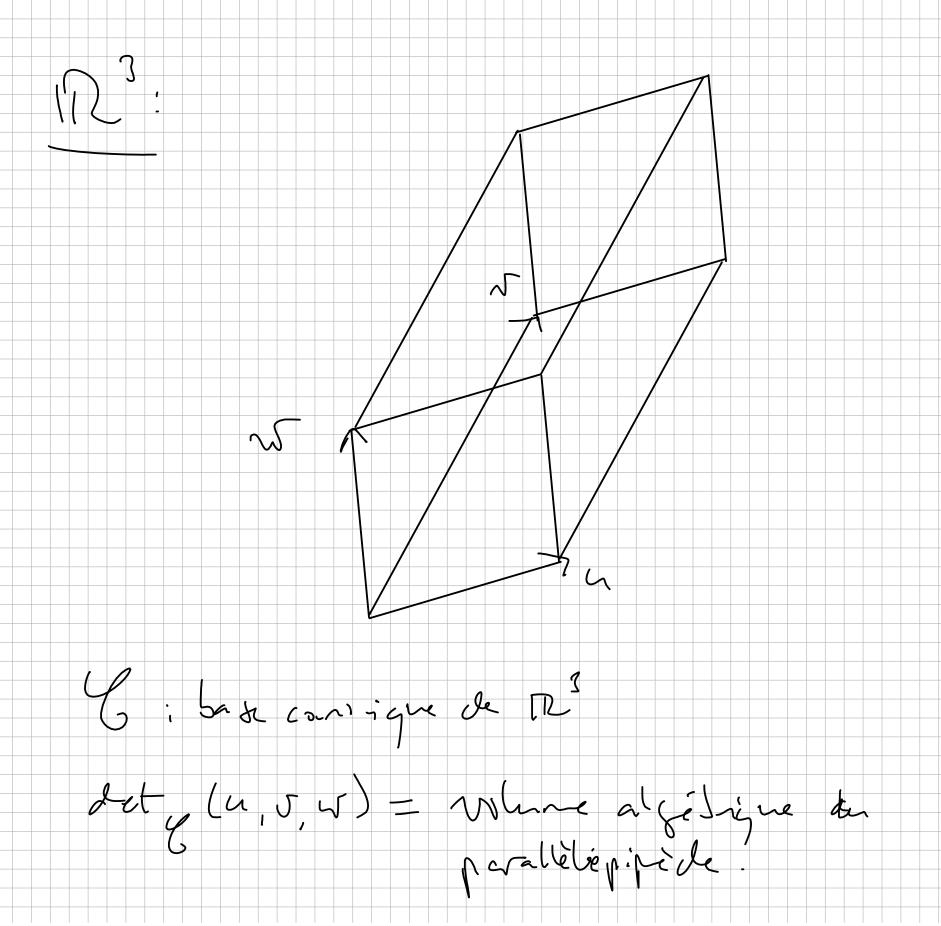
$$= ||u|| \cdot ||v'||$$

$$= base \times bauteur$$

$$= aire A peak ébyrme.$$

$$P: S: Bu-1 bond.$$

$$det_{D}(u,r) = det_{C}(u,r)$$



Di- MAWI- recturel. det (u, s, w) = u. (N \ w) Pg: le détoniant et a tile pour donne des Égrahies de drites et de plans. \_ ls 1/22: D=Vect (a)  $N \in \mathcal{D} \subset \mathcal{U}(\mathcal{U}, \mathcal{I})$  like  $\langle = \rfloor \det(u, 5) = 0$ 

- 
$$A_{\Sigma} \mathbb{R}^{2}$$
:  $P = Vect(u, v)$ 
 $V \in P \Leftrightarrow Jet_{\Sigma}(u, v, w) = 0$ .

$$V \in P \Leftrightarrow Jet_{\Sigma}(u, v, w) = 0$$

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