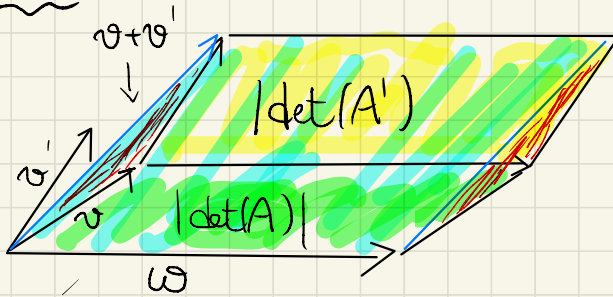


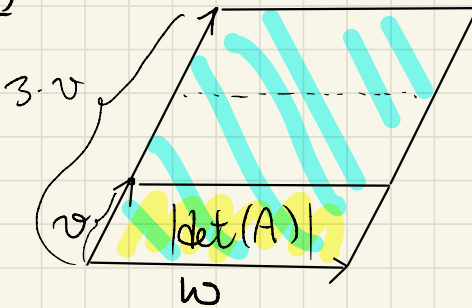
Bilder

zu 8.21(a) $A = (v \ w) \in \mathcal{M}_{2 \times 2}(\mathbb{R})$, $v, w \in \mathbb{R}^2$, $v' \in \mathbb{R}^2$
 $A' = (v' \ w)$



$$\det(v+v', w)$$

zu 8.21(b)



$$A = (v \ w)$$

$$A' = (3v \ w)$$

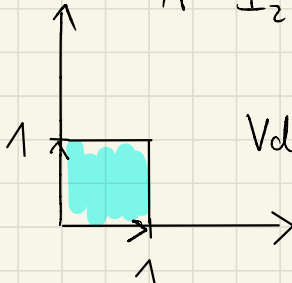
$$\det(A') = 3 \det(A)$$

zu 8.21(c) $A = (v \ v)$

_____ (Parallelogramm zu "Linie" deformiert,
hat Volumen 0.)

zu 8.21(d)

$$A = I_2 \Rightarrow \det(A) = 1$$



$$\text{Volumen } 1 \cdot 1 = 1$$