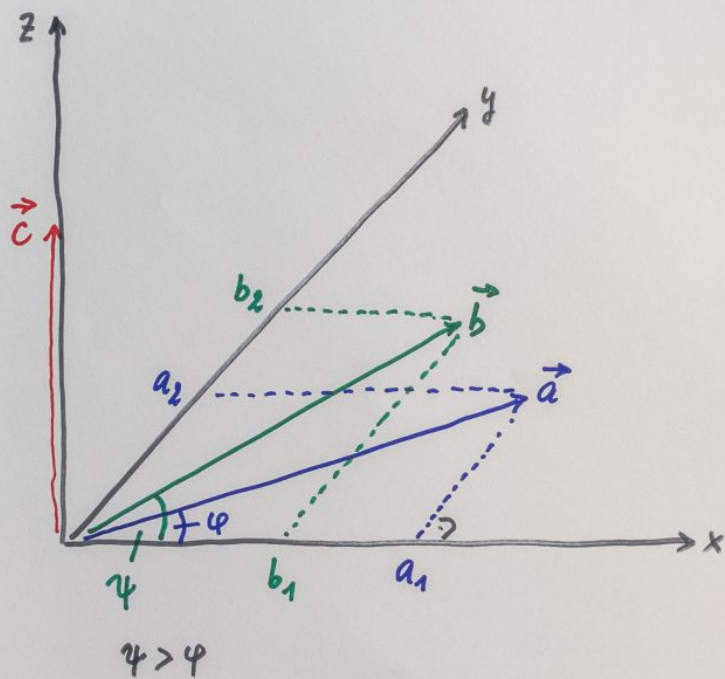


# Vektorprodukt - Teil 3

-Korkenzieherregel

Annahme:  $a_3=0$ ,  $b_3=0$  ( $\vec{a}$  und  $\vec{b}$  in  $(x,y)$ -Ebene)

$$\vec{c} = (a_1 b_2 - a_2 b_1) \vec{k}$$



$$\left. \begin{array}{l} \tan \varphi = \frac{a_2}{a_1} \\ \tan \psi = \frac{b_2}{b_1} \end{array} \right\} \begin{array}{l} \tan \psi > \tan \varphi \\ \frac{b_2}{b_1} > \frac{a_2}{a_1} \end{array}$$

$$b_2 a_1 > b_1 a_2$$

$$b_2 a_1 - a_2 b_1 > 0$$

$\vec{c}$  : positive  $z$ -Richtung