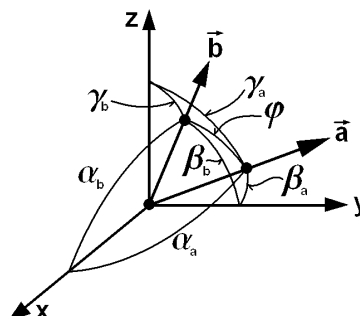


Übungen in AlgGeo \diamond Exercices en AlgGéo \diamond T. B1 \diamond I / 13

Probl. 1 $\varphi = \chi(\vec{a}, \vec{b})$
 $\alpha_a = 73^\circ, \alpha_b = 69^\circ$
 $\beta_a = 31^\circ, \beta_b = 64^\circ$

$\gamma_a = ? \quad \gamma_b = ? \quad \varphi = ?$



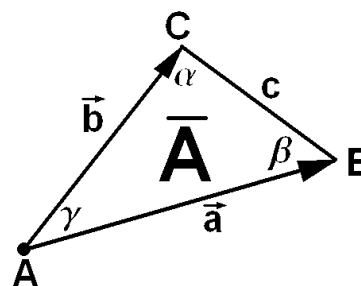
Probl. 2 $\vec{a} = \begin{pmatrix} -2 \\ 2 \\ 6 \end{pmatrix}, \vec{b} = \begin{pmatrix} 3 \\ 2 \\ 4 \end{pmatrix}, A = A(2, 1, 3)$

$B = ? \quad C = ?$

$a = |\vec{a}| = ? \quad b = |\vec{b}| = ? \quad c = ?$

$\alpha = ? \quad \beta = ? \quad \gamma = ?$

$\bar{A} = ?$



Probl. 3 $g : \vec{r} = \begin{pmatrix} 0 \\ 3 \end{pmatrix} + t \cdot \vec{a} \quad (|\vec{a}| = 1) \rightsquigarrow \vec{a} = ?$

$g : Ax + By + C = 0,$
 $C = 1 \rightsquigarrow A = ? \quad B = ?$

$\vec{n} = 1 \rightsquigarrow \vec{n} = ?$

$g_1 : A_1x + B_1y + C_1 = 0$
 $\rightsquigarrow A_1 = ? \quad B_1 = ? \quad C_1 = ?$

$S = n \cap g = ?$

