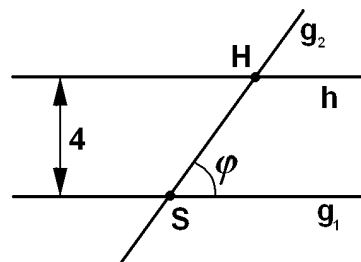
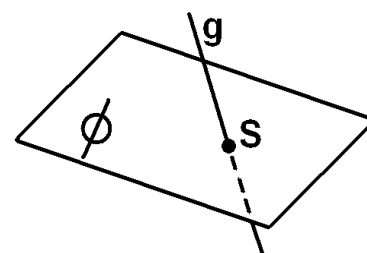


Übungen in AlgGeo \diamond Exercices en AlgGéo \diamond T. F1 \diamond I / 13

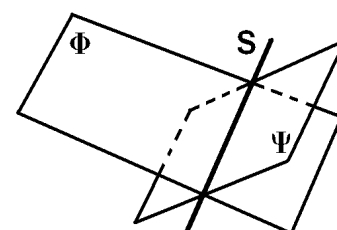
Probl. 1 $g_1 : \vec{r} = \begin{pmatrix} -2 \\ 4 \end{pmatrix} + t \begin{pmatrix} 7 \\ 2 \end{pmatrix}$
 $g_2 : \vec{r} = \begin{pmatrix} 8 \\ 3 \end{pmatrix} + t \begin{pmatrix} -4 \\ 5 \end{pmatrix}$
 $h = ? \quad S = ? \quad H = ? \quad \varphi = ?$



Probl. 2 (a) $\vec{r} = \begin{pmatrix} -2 \\ 4 \\ 1 \end{pmatrix} + t \begin{pmatrix} 7 \\ 2 \\ -1 \end{pmatrix}$
 $\vec{\Phi} = \begin{pmatrix} 1 \\ 0 \\ -2 \end{pmatrix} + \lambda \begin{pmatrix} 4 \\ 1 \\ 4 \end{pmatrix} + \mu \begin{pmatrix} -3 \\ -2 \\ 1 \end{pmatrix}$
 $S = ?$

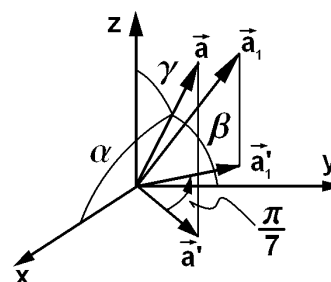


(b) $\Psi : \vec{r} = \begin{pmatrix} 0 \\ 1 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} -1 \\ 2 \\ 3 \end{pmatrix} + \mu \begin{pmatrix} 1 \\ -1 \\ 1 \end{pmatrix}$
 $H_1 = \{(x, y, 0)\}, H_2 = \{(0, y, z)\}, H_3 = \{(x, 0, z)\}$



Probl. 3 $\vec{a} = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}, \vec{a}' = \begin{pmatrix} 1 \\ 2 \\ 0 \end{pmatrix}$
 $\vec{a}_1 = ? \quad \vec{a}'_1 = ?$
 $\alpha = ? \quad \beta = ? \quad \gamma = ?$

Rückseite! • Verso!



Probl. 4 $\Psi : \vec{r} = \begin{pmatrix} 0 \\ 1 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} -1 \\ 2 \\ 3 \end{pmatrix} + \mu \begin{pmatrix} 1 \\ -1 \\ 1 \end{pmatrix}$
 $P_0 = P_0(15, 20, 18)$

$d = |\overline{HP_0}| = ? \quad H = ?$

