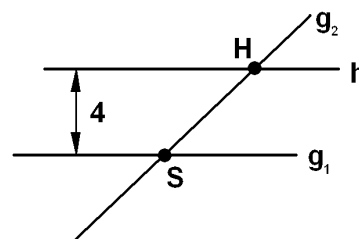
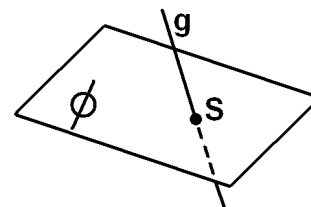


Übungen in AlgGeo \diamond Exercices en AlgGéo \diamond T. E1 \diamond I / 11

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

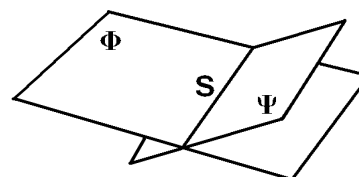


Probl. 2 (a) $g: \vec{r} = \begin{pmatrix} -2 \\ 4 \\ 1 \end{pmatrix} + t \begin{pmatrix} 7 \\ 2 \\ -1 \end{pmatrix}$
 $\Phi: \vec{r} = \begin{pmatrix} 1 \\ 0 \\ -2 \end{pmatrix} + \lambda \begin{pmatrix} 4 \\ 1 \\ 4 \end{pmatrix} + \mu \begin{pmatrix} -3 \\ -2 \\ 1 \end{pmatrix}$
 $S = ?$



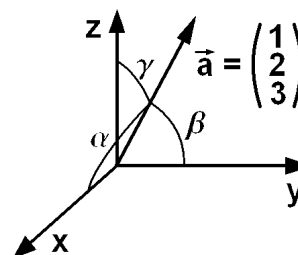
(b) $\Psi: \vec{r} = \begin{pmatrix} 0 \\ 1 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} -1 \\ 2 \\ 3 \end{pmatrix} + \mu \begin{pmatrix} 1 \\ -1 \\ 1 \end{pmatrix}$

Spurpunkt von S in der Grundebene?
 • *Point d'intersection de S avec le plan fondamental?*

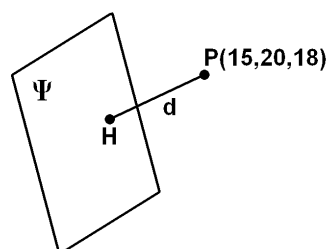


Probl. 3 (a) $\alpha = ? \quad \beta = ? \quad \gamma = ?$

(b) Drehe \vec{a} in $+$ -Richtung um $\frac{\pi}{2}$ um die z -Achse $\rightsquigarrow \vec{a}' = ?$
 • *Rotation de \vec{a} vers la direction $+$ autour de l'axe z par $\frac{\pi}{2} \rightsquigarrow \vec{a}' = ?$*



Probl. 4 $\Psi: \vec{r} = \begin{pmatrix} 0 \\ 1 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} -1 \\ 2 \\ 3 \end{pmatrix} + \mu \begin{pmatrix} 1 \\ -1 \\ 1 \end{pmatrix}$
 $d = ? \quad H = ?$



- Probl. 5** Arbeite weiter an der Einführung in *Mathematica*! Repetiere zudem den Stoff für den nächsten Test!
- *Continuer le travail à l'introduction dans Mathematica! En plus répéter la matière pour le test prochain*