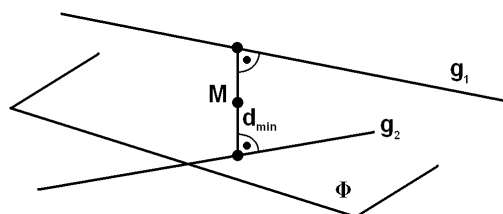


Übungen in AlgGeo \diamond Exercices en AlgGéo \diamond T. B1 \diamond II / 5

Probl. 1 $g_1 : \vec{r} = \begin{pmatrix} -2 \\ -2 \\ 3 \end{pmatrix} + \lambda \begin{pmatrix} 5 \\ 1 \\ -6 \end{pmatrix}$
 $g_2 : \vec{r} = \begin{pmatrix} 1 \\ 2 \\ -3 \end{pmatrix} + \mu \begin{pmatrix} 3 \\ 3 \\ 5 \end{pmatrix}$

- (a) $d_{\min}(g_1, g_2) = ?$
 (b) $\Phi \parallel g_1, \Phi \parallel g_2, M \in \Phi \rightsquigarrow \Phi$
 $\Phi \cap (z\text{-Achse} \bullet -axe z) = ?$



Probl. 2 $g_3 : \vec{r} = \begin{pmatrix} 0 \\ 2 \\ 1 \end{pmatrix} + \nu \begin{pmatrix} 5 \\ 3 \\ -4 \end{pmatrix}$

$S = \text{Schwerpunkt} \bullet \text{Centre de gravitation}$
 $A = \text{Oberfläche} \bullet \text{Surface}$

- (a) $d_{1\min}, d_{2\min}, d_{3\min} = ?$
 (b) $P_1, P_2, \dots, P_6 = ?$
 (c) $A(\triangle P_1 P_2 P_3) = ?$
 (d) $A(\triangle P_2 P_4 P_6) = ?$
 (e) $S(\triangle P_1 P_3 P_5) = ?$
 (f) $S(\triangle P_2 P_4 P_6) = ?$

