Übungen in AlgGeo ◇ Exercices en AlgGéo ◇ T. F1 ◇ I / 11

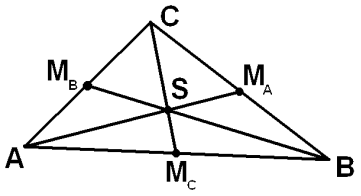
Probl. 1 $\vec{a} = 3\,\vec{e}_1 - 2\,\vec{e}_2 + 5\,\vec{e}_3$
$\vec{b} = 7\,\vec{e}_1 + \vec{e}_2 - \vec{e}_3$
$\vec{c} = -4\,\vec{e}_1 + 3\,\vec{e}_2 - 6\,\vec{e}_3$

$$\vec{d} = \begin{pmatrix} 1 \\ 2 \\ 5 \end{pmatrix}_B = \begin{pmatrix} ? \\ ? \\ ? \end{pmatrix}_{B'}$$

$\vec{e}_1, \vec{e}_2, \vec{e}_3 = ?\ (B')$

Probl. 2 $S = ?$

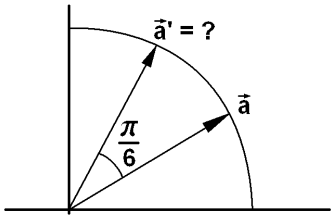
Formel berechnen! • *Trouver une formule!*



Probl. 3 $\sin(\alpha) + \cos(\alpha) \leq ? \qquad \alpha \in \mathbb{R}$

Probl. 4 $\vec{a} = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$

$D_\varphi \rightsquigarrow \ \vec{a}\,' = ?$



Probl. 5 $\tan(\alpha) + \tan(\beta) + \tan(\gamma) = \tan(\alpha) \cdot \tan(\beta) \cdot \tan(\gamma) \ \Rightarrow \ \alpha, \beta, \gamma = ?$

Probl. 6 $(P_1P_2P_3P_4 = -1) \rightsquigarrow \ P_3, P_4 = ?$