

Übungen in AlgGeo $\diamond$ Exercices en AlgGéo $\diamond$ T. B1 $\diamond$ II / 10

Probl. 1 $z_1 = 4 + 2i$ $z_2 = 3 - i$

(a) $z_1 - z_2 = ?$

(b) $z_1 + z_2 = ?$

(c) $z_1 \cdot z_2 = ?$

(d) $\frac{z_1}{z_2} = ?$

Probl. 2 $z = 1 + i \rightsquigarrow$ Skizziere: • *Esquisse de:*

(a) z ?

(b) $\frac{1}{z}$?

(c) $z + \frac{1}{z}$?

Probl. 3 $P_1 \hat{=} z_1 = 3 + i$, $P_2 \hat{=} z_2 = 11 + i$, $P_3 \hat{=} z_3 = 14 + i$, $P_4 \hat{=} z_4 = 14 + 3.5i$
 $P_5 \hat{=} z_5 = 11 + 3.5i$, $P_6 \hat{=} z_6 = 5 + 3.5i$, $P_7 \hat{=} z_7 = 3 + 6i$, $P_8 \hat{=} z_8 = 11 + 6i$,

(a) Zeichne den Streckenzug: • *Dessiner les segments:*

$$P_1 P_6 P_5 P_4 P_3 P_2 P_1 P_7 P_8 P_5 P_2 P_1 P_7 P_6$$

(b) Sei • *Soit* $\lambda = 2$, $\vec{k} = \begin{pmatrix} 5 \\ 7 \end{pmatrix}$, $\alpha = 50^\circ \rightsquigarrow$ Rot. D_α

Abbildungen: • *Applications:*

$$P_k \xrightarrow{\vec{v} \mapsto \vec{w} = \lambda \cdot \vec{v}} Q_k \xrightarrow{\vec{w} \mapsto \vec{w} + \vec{k}} S_k \xrightarrow{D_\alpha} T_k = ?$$

i. Rechnung ? • *Calcul* ?

ii. Skizze ? • *Esquisse* ?