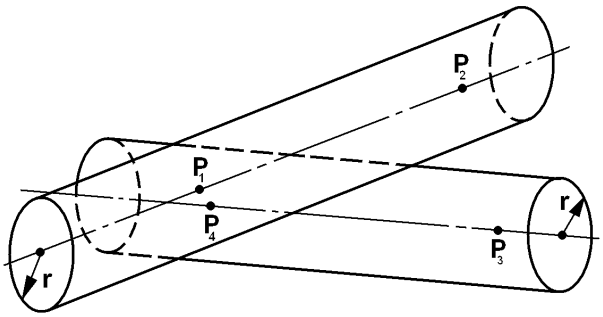
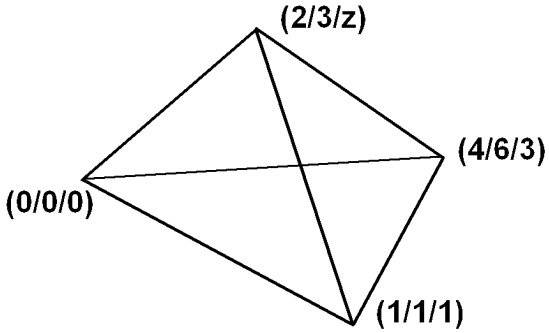
Test in AlgGeo ◇ Examen en AlgGéo ◇ Type B1 ◇ I / 3

Probl. 1



2 Zylinder berühren sich.
• *2 cylindres se touchent.*
$P_1 = P_1(0/0/0)$, $P_2 = P_2(5/5/5)$,
$P_3 = P_3(5/7/1)$, $P_4 = P_4(-3,-4,-6)$
$r_1 = r_2 = r = ?$

Probl. 2



Sei • *Soit* $z > 0$

(a) $z = 8 \Rightarrow V = ?$

(b) $V = 20 \Rightarrow z = ?$

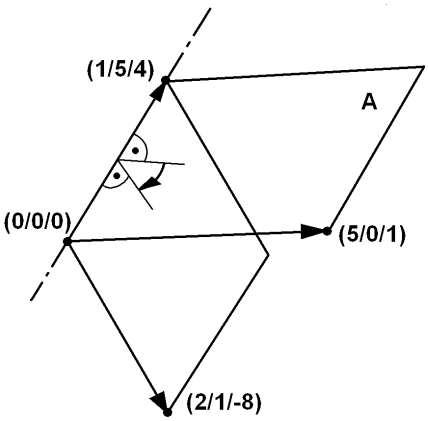
Probl. 3

$$\left|\begin{array}{lcl} x + y + z & = & 1 \\ x + 2\,y + 3\,z & = & \alpha \\ x + 4\,y + \beta\,z & = & 0 \end{array}\right|$$

(a) Im Falle dass es keine Lösung gibt:
• *Dans le cas où il y n'a pas de solution:*
$\alpha = 0 \Rightarrow \beta = ?$

(b) $\beta = 9,\ x = 0 \Rightarrow \alpha = ?$

Probl. 4



(a) $A = ?$

(b) $\varphi = ?$