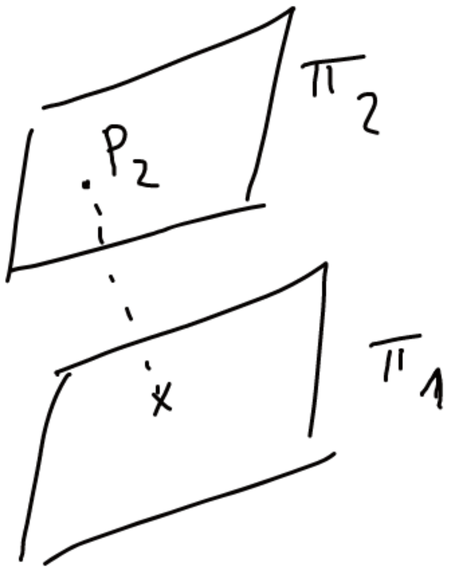
XVI-3 $\pi_1: x-2y+2z-3=0$ $\quad \pi_2: -x+2y-2z+6=0$

$\vec{n}_1 = (1,-2,2)$ $\quad \vec{n}_2 = -\vec{n}_1$ $\quad \vec{n}_2 = (-1,2,-2)$



np. $P_2 = (6,0,0) \in \pi_2$

$$d(\pi_1,\pi_2) = d(\pi_1,P_2) = \frac{|6-0+0-3|}{\sqrt{1^2+(-2)^2+2^2}} = 1$$

$\pi_1 \| \pi_2$