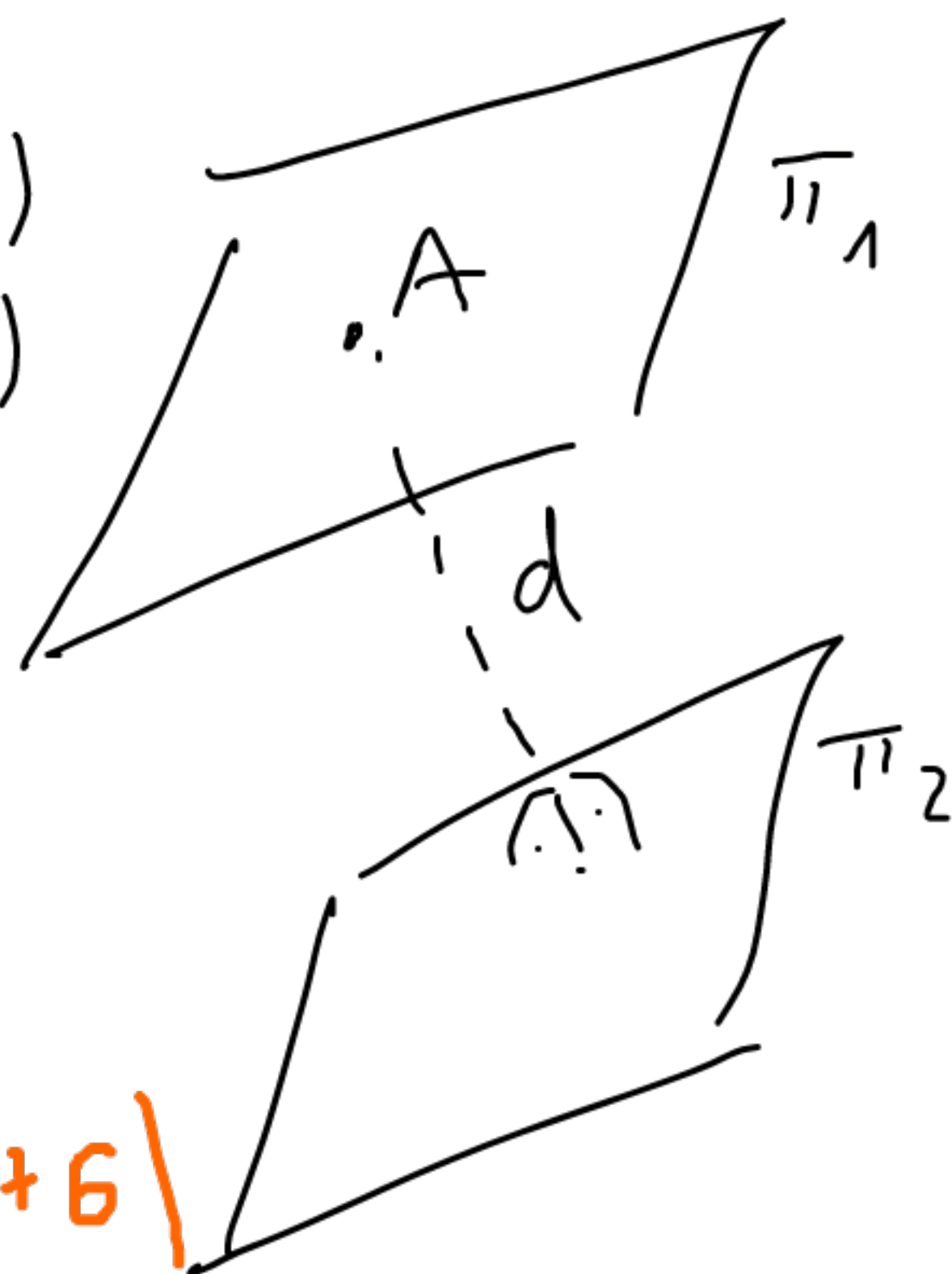


XVI/3

$$\pi_1: x - 2y + 2z - 3 = 0$$

$$\pi_2: -x + 2y - 2z + 6 = 0$$

$$\begin{cases} n_1 = (1, -2, 2) \\ n_2 = (-1, 2, -2) \\ n_2 = -n_1 \end{cases}$$



$$P = (3, 0, 0) \in \pi_1$$

~~IF~~

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

$\pi_1 \parallel \pi_2 \Rightarrow d(\pi_1, \pi_2) = d(A, \pi_2)$   
( $A \in \pi_1$ )

$$= \frac{3}{\sqrt{9}} = 1$$