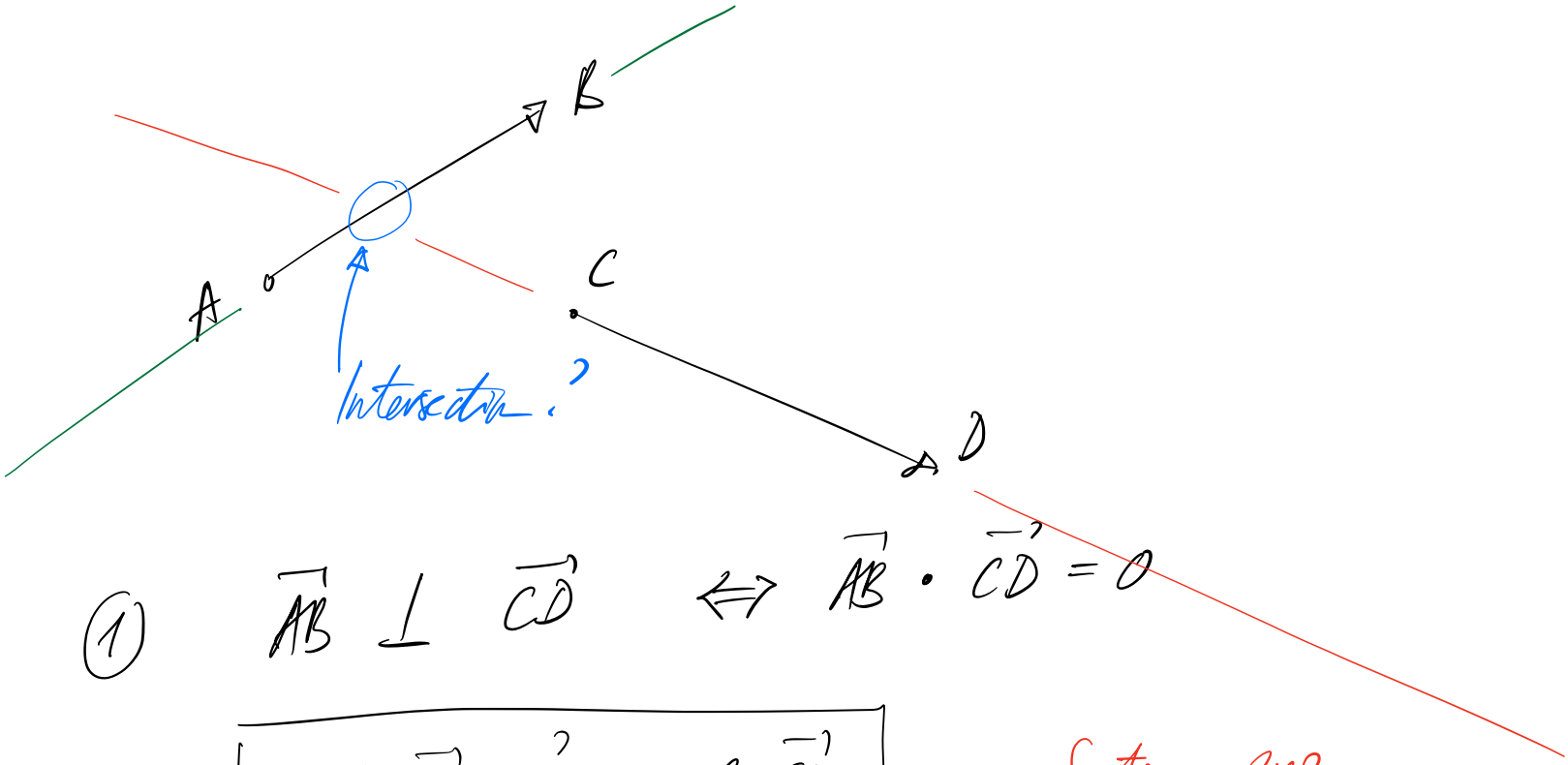
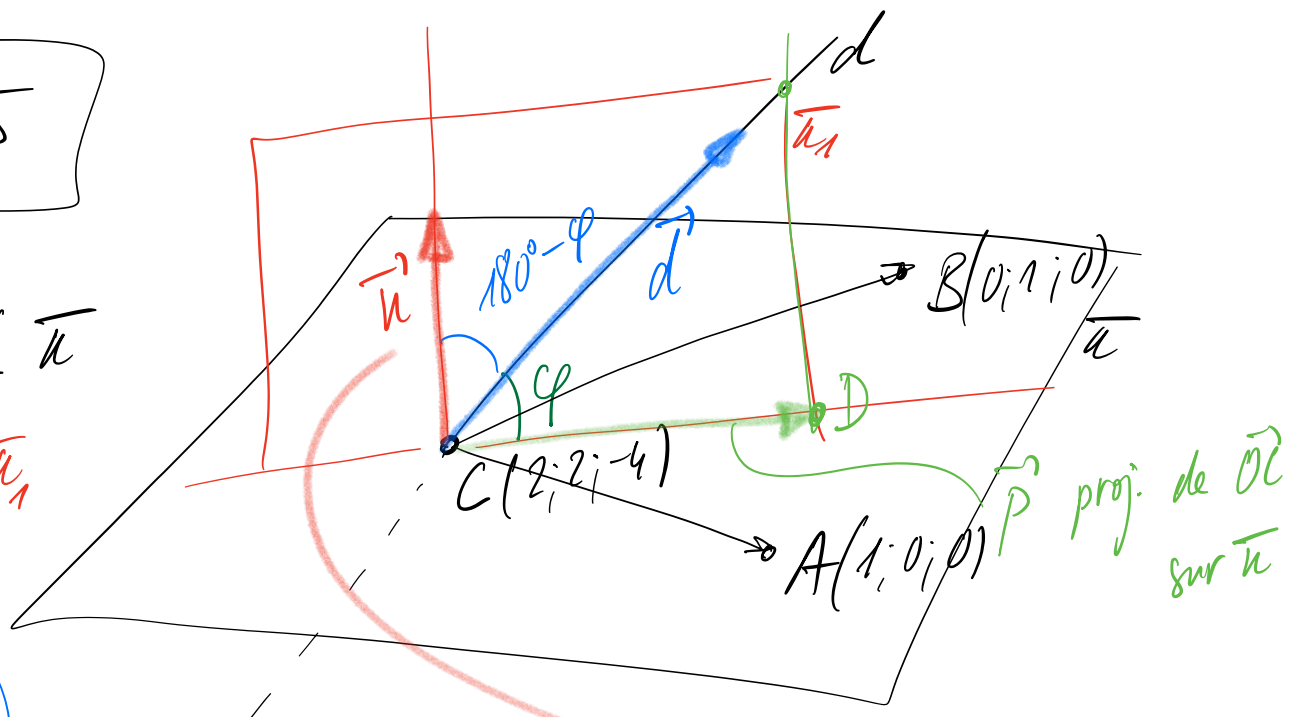


(1) $\overrightarrow{AB} \perp \overrightarrow{CD} \iff \overrightarrow{AB} \cdot \overrightarrow{CD} = 0$

(2) $\boxed{A + k \cdot \overrightarrow{AB} \stackrel{?}{=} C + \ell \cdot \overrightarrow{CD}}$ ← Système 2×2

1.5.5



$\vec{u_1} \perp \vec{u}$

$d \in \vec{u_1}$

$\vec{d} = \vec{OC}$

O(0;0;0)

$\vec{CA} \times \vec{CB} = \vec{n}$

$$\cos\varphi = \frac{|\vec{a}\cdot\vec{b}|}{\|\vec{a}\|\cdot\|\vec{b}\|}$$ donne l'angle aigu entre $\vec{n}$ et $\vec{d}$

On en déduit $\varphi = 90° - \gamma$

$\vec{a} = \vec{OC}$

$\vec{b} = \vec{CA} \times \vec{CB}$