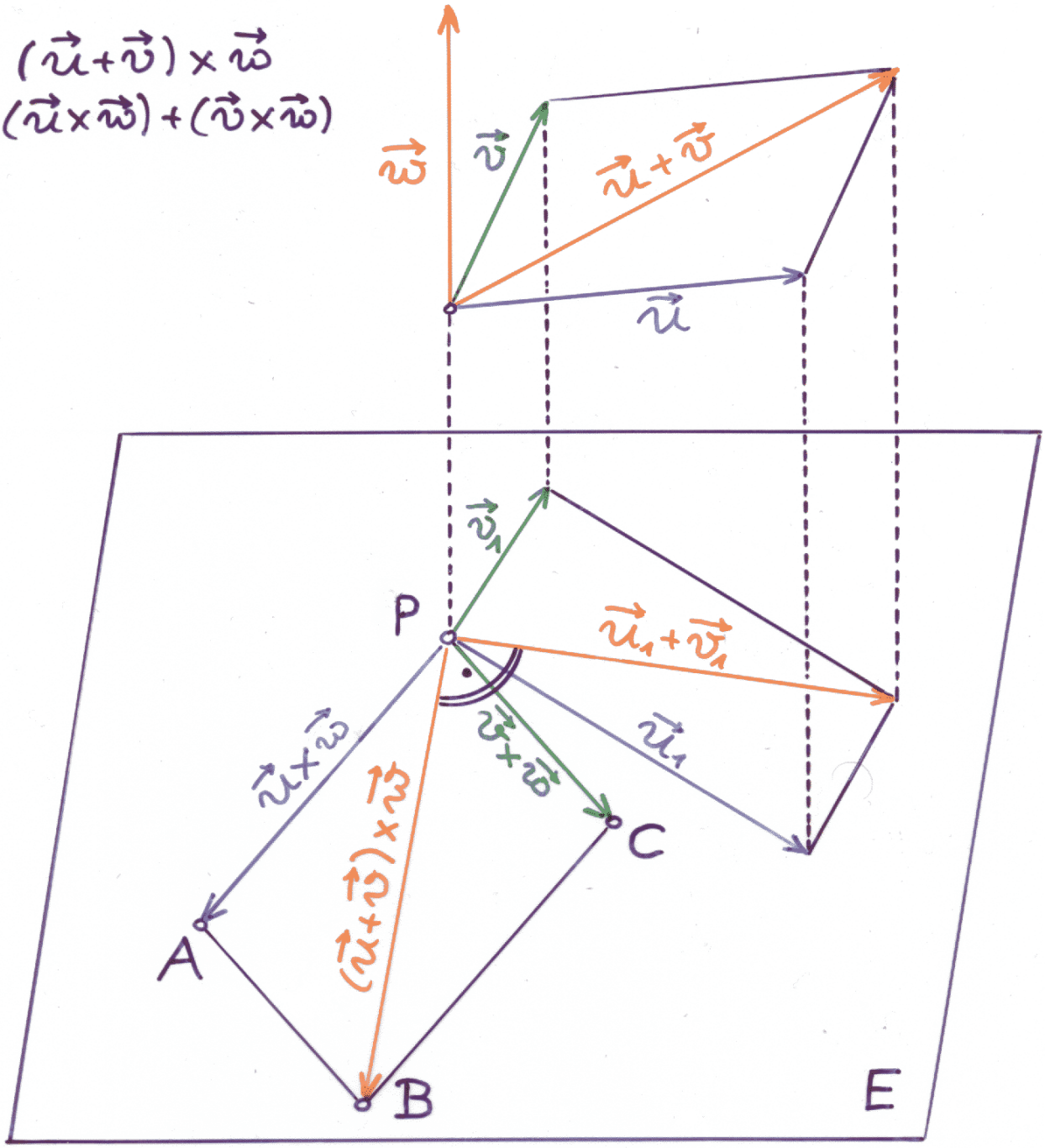
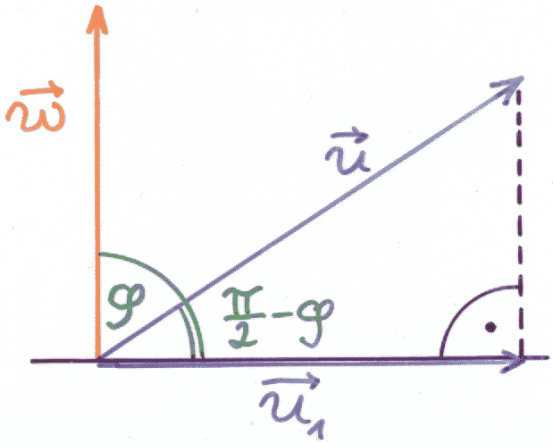
$$(\vec{u}+\vec{v})\times\vec{w} = (\vec{u}\times\vec{w})+(\vec{v}\times\vec{w})$$





$$\cos\left(\frac{\pi}{2}-\varphi\right) = \frac{\|\vec{u}_1\|}{\|\vec{u}\|}$$

$$\| \quad \|$$

$$\sin(\varphi)$$

$$\|\vec{u}_1\| = \|\vec{u}\|\cdot\sin(\varphi)$$

$$\varphi = \sphericalangle(\vec{u},\vec{w})$$