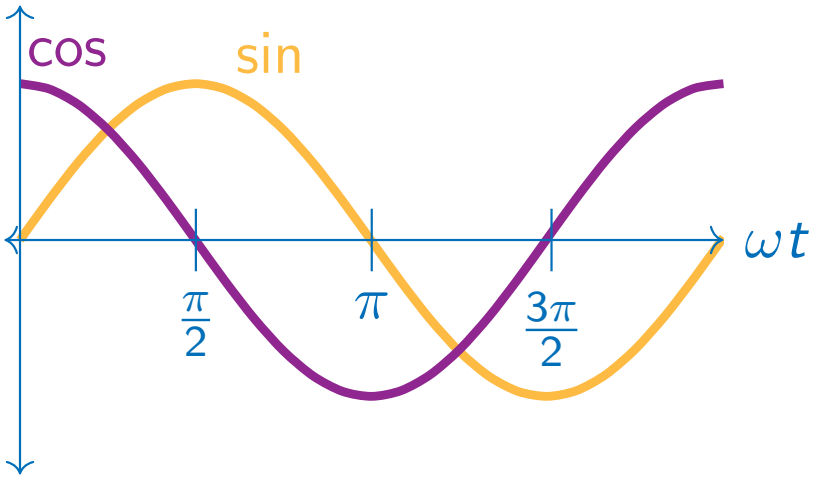
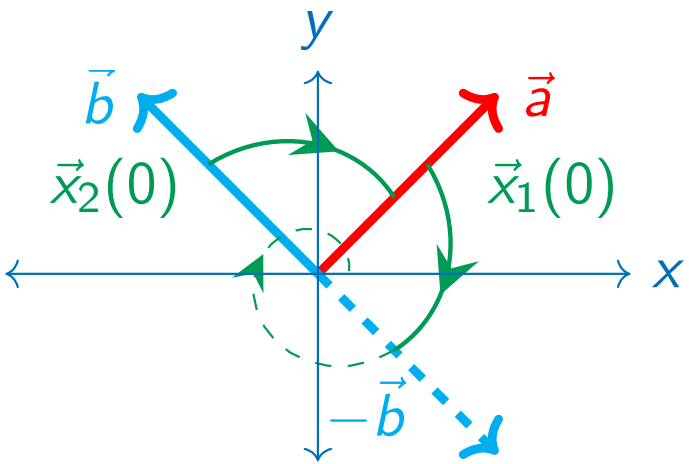
Qualitative behaviour of solutions: Chirality

$$\vec{x}_1 = e^{\alpha t}\left(\cos(\omega t)\vec{a} - \sin(\omega t)\vec{b}\right)$$

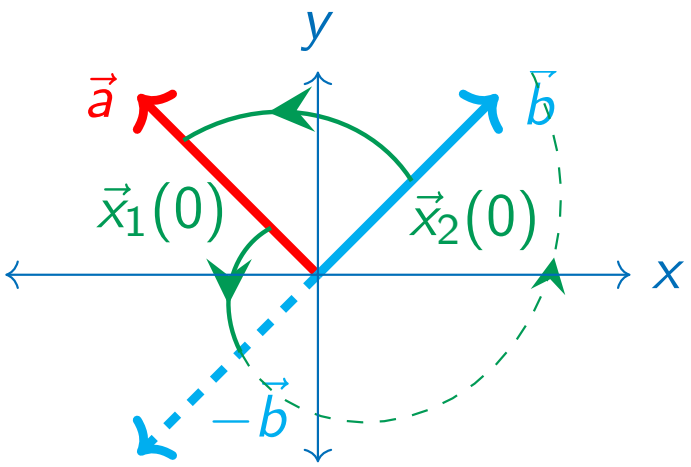


$$\vec{x}_2 = e^{\alpha t}\left(\sin(\omega t)\vec{a} + \cos(\omega t)\vec{b}\right)$$

Clockwise (right-handed)



Counter-clockwise (left-handed)



$\underline{t = 0,}$ $\underline{\omega t = \pi/2}$

$\vec{x}_1 = \vec{a}$ $x_1 \propto -\vec{b}$

$\vec{x}_2 = \vec{b}$ $x_2 \propto \vec{a}$