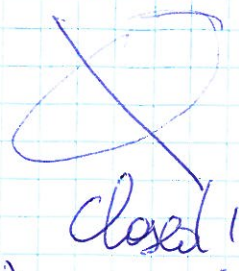


~~smooth (flat)~~

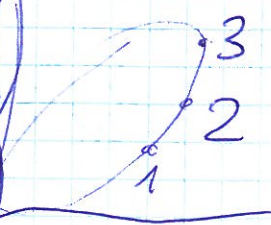
no loops!
(? topological)

! too long!

$$\varphi: t \rightarrow \varphi(t) = \begin{pmatrix} \varphi_1(t) \\ \varphi_2(t) \end{pmatrix}$$



plot $[\varphi_1(t_n), \varphi_2(t_n)]$
or plot $(\varphi_1(t_n) + i\varphi_2(t_n))$
 $\mathbb{R}^2 \simeq \mathbb{C}$

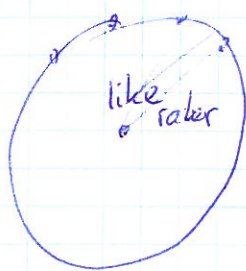


$$I \subset \mathbb{R} \rightarrow \mathbb{C}$$

!! periodic curves

$$\varphi_1 + i\varphi_2 = \vec{\varphi}$$

smooth



aus Punktlage wird Folge von Vektor

M = center of gravity of the point set. $= \frac{\sum z_i}{\text{number}}$

$(z_i - M)$ scaled by argument

by using pre-defined fixed smooth arcs!



choice of the number of free parameters