$P_0 \dots P_M \in \mathbb{R}^N$ ⇐ nehom

$w_0 \dots w_M \in \mathbb{R}^+$

$$\boxed{\tilde{w}_0 = \frac{w_0}{w_0} = 1}$$

$$\tilde{w}_i = \frac{w_i}{w_0}$$

$$\tilde{w}_M = \frac{w_M}{w_0}$$

$$\boxed{\tilde{w}_0 = 1}, \tilde{w}_1, \dots, \boxed{\tilde{w}_M}$$

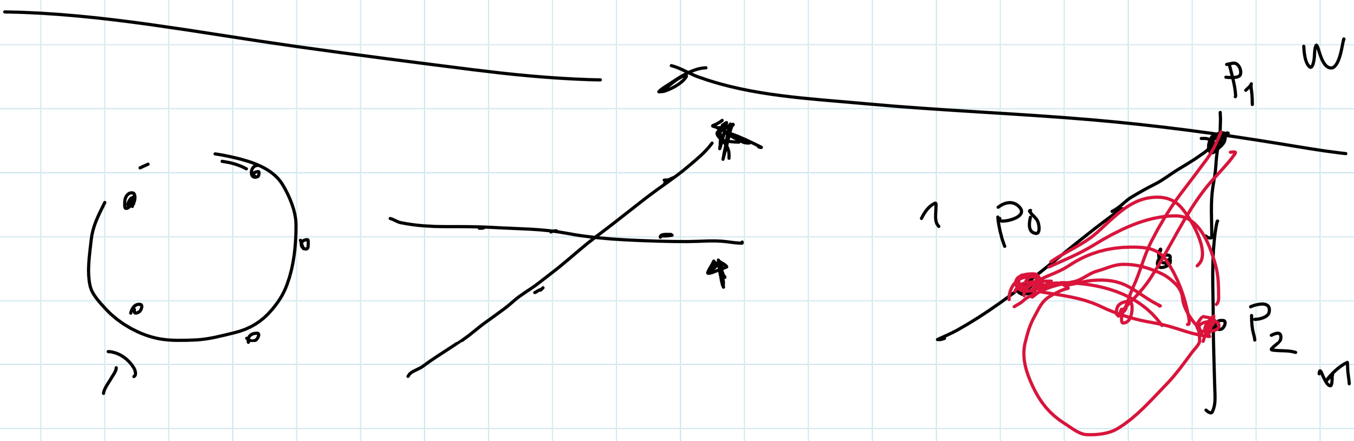
$$\tilde{\tilde{w}}_i = \tilde{w}_i \cdot \left(\tilde{w}_M\right)^{-\frac{i}{M}}$$

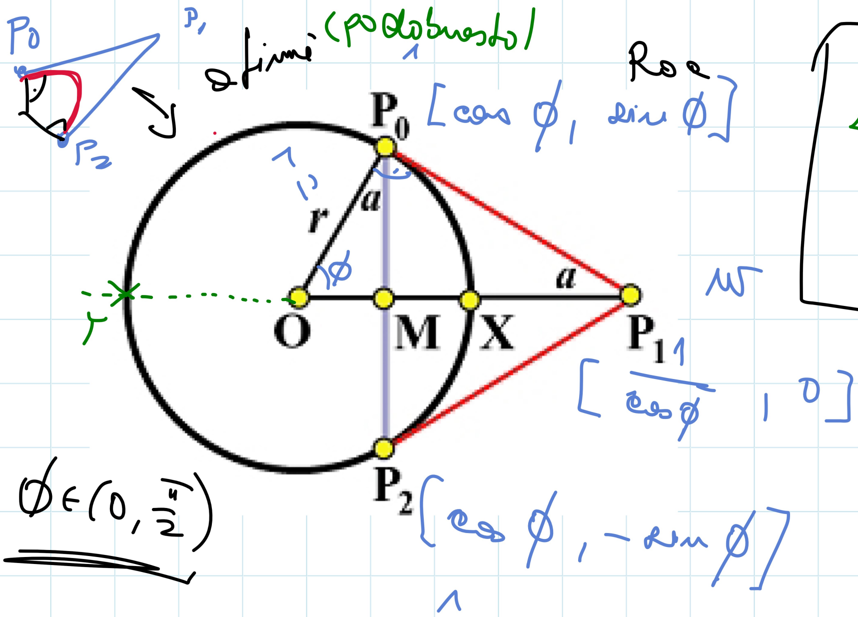
⇐ s zu Ly 5.3

$$s = \left(\sqrt[M]{\tilde{w}_M}\right)^{-1} = \left(\tilde{w}_M\right)^{-\frac{1}{M}}$$

$i = 0 \Rightarrow \tilde{\tilde{w}}_1 = \tilde{w}_1 = 1$

$i = M \quad \tilde{\tilde{w}}_M = \tilde{w}_M \cdot \left(\tilde{w}_M\right)^{-\frac{M}{M}} = \underline{\underline{1}}$



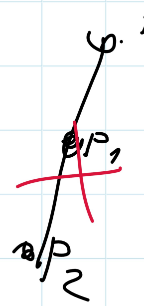


$\phi \in (0, \frac{\pi}{2})$

$$\boxed{|P_0P_1| = |P_1P_2|}$$

$$w = \sin a$$

kružnica



$$B_0^2\left(\tfrac{1}{2}\right) = B_2^2\left(\tfrac{1}{2}\right) = \frac{1}{4}$$

$$B_1^2\left(\tfrac{1}{2}\right) = \frac{1}{2}$$

$$X = c\left(\tfrac{1}{2}\right) = \frac{\frac{1}{4}\cdot[\cos\phi, \sin\phi] + \frac{1}{2}\cdot w\cdot\left[\frac{1}{\cos\phi}, 0\right] + \frac{1}{4}[\cos\phi, -\sin\phi]}{\frac{1}{4} + \frac{1}{2}w + \frac{1}{4}}$$

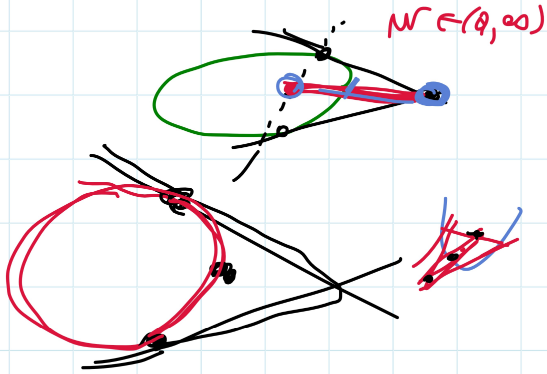
$c(t)$

$$= \frac{\cancel{\frac{1}{2}}\left[\cos\phi + \frac{w}{\cos\phi},\ 0\right]}{\cancel{\frac{1}{2}}(1+w)} =$$

$$= \left[\frac{\cos^2\phi + w}{\cos\phi\,(1+w)},\ 0\right]$$

$(=)$ " 1 ??

$w \in (0, \infty)$



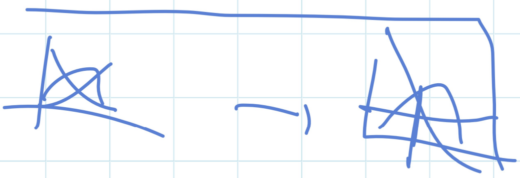
$$\cos^2\phi + w = \cos\phi\,(1+w)$$

$$w\,(1 - \cancel{\cos\phi}) = \cos\phi - \cos^2\phi = \cos\phi\,(1 - \cancel{\cos\phi})$$

$$\boxed{w = \cos\phi = \sin a}$$

Pozn.

$$c(t) = \frac{\sum_{i=0}^{n} w_i\, P_i\, B_i^n(t)}{\sum_{i=0}^{n} w_i\, B_i^n(t)} = \sum_{i=0}^{n} P_i \left(\frac{w_i\, B_i^n(t)}{\sum_{i=0}^{n} w_i\, B_i^n(t)}\right)$$



$(w)F_i^n(t)$