

$x^2 + y^2 = 1$

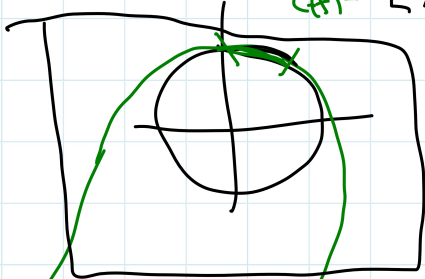
NRL zF $\max(\deg p_1, \deg p_2) \geq 1$

$c(t) = [x, y] = [p_1(t), p_2(t)]$

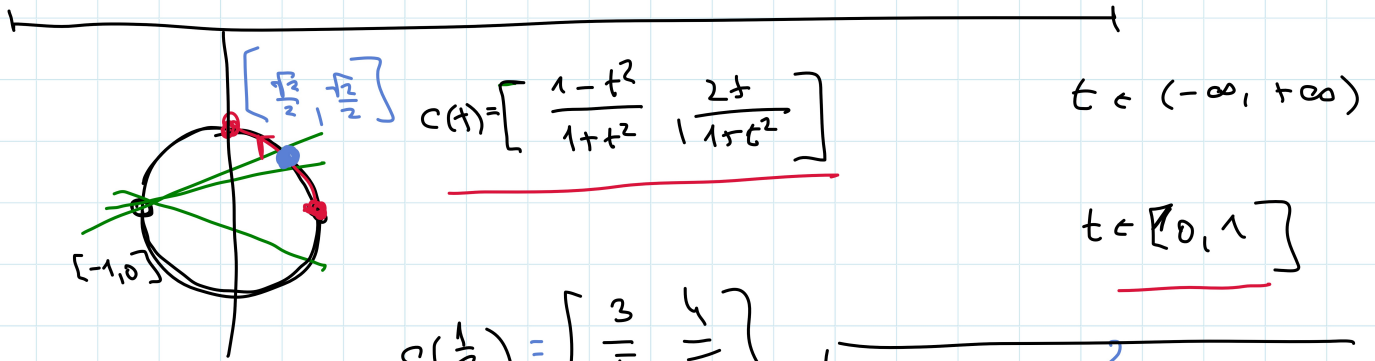
$p_1^2(t) + p_2^2(t) - 1 = 0$

reduces to eq. $\text{merw\u00e4h} \text{ t\u00fcr}$

$\left[\frac{3}{5}, \frac{4}{5} \right]$



∞
 k\u00f6nne $\&$ plotu pro $t \in (\alpha, \beta) \Rightarrow$
 \rightarrow plotu pro $t \in \mathbb{R}$.

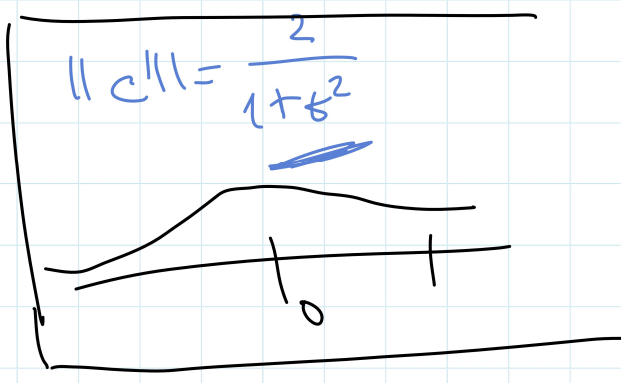


$c(t) = \left[\frac{1-t^2}{1+t^2}, \frac{2t}{1+t^2} \right]$

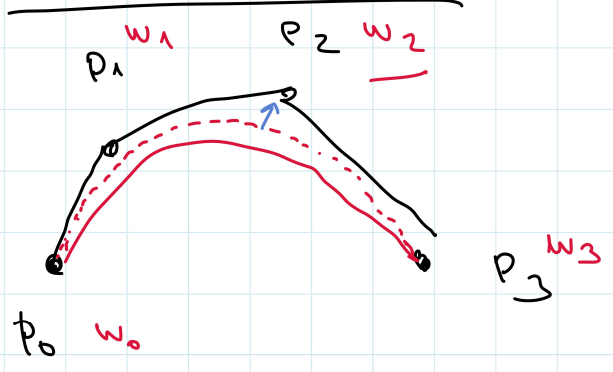
$t \in (-\infty, +\infty)$

$t \in [0, 1]$

$c(1/2) = \left[\frac{3}{5}, \frac{4}{5} \right]$

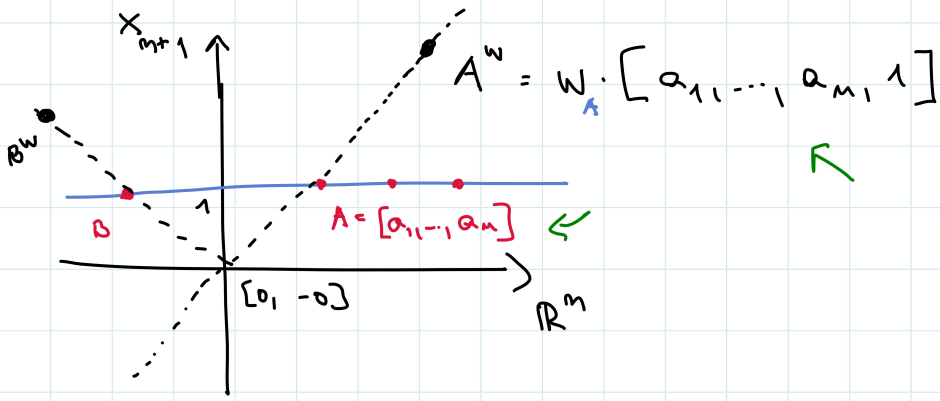


Racoonolud B\u00e9zier



$w_k \geq 0$

$[1-t^2, 2t, 1+t^2]$
 $c(t) = \frac{\sum (p_x, p_y) \cdot b}{\sum p_z}$

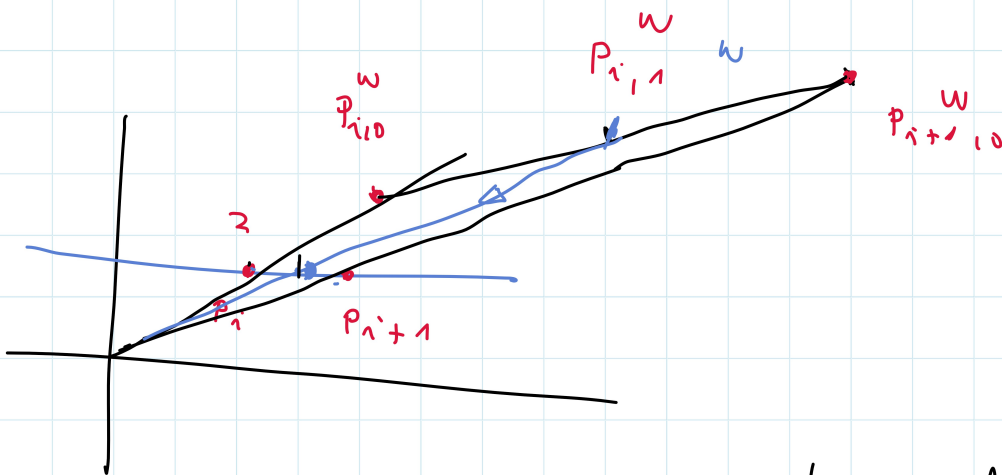


$$B^w = [b_{11}, \dots, b_{m,1}, b_{m+1}] \Rightarrow \left[\frac{b_1}{b_{m+1}}, \dots, \frac{b_m}{b_{m+1}} \right] \quad \text{with } b_{m+1} \text{ crossed out}$$

$w_B = b_{m+1}$

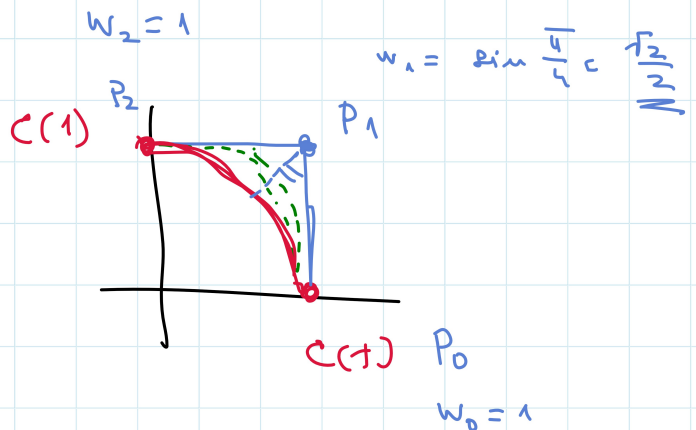
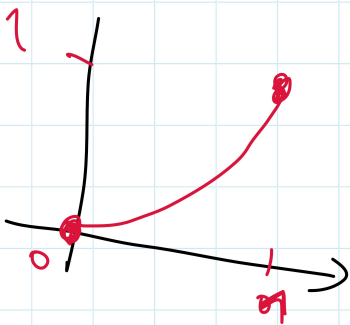
$$> 0 \iff w_i > 0$$

$$C^w = [\dots, C_{m+1}(t)]$$



$$\eta \in \mathbb{R}^+$$

$$\left[s = \frac{1}{1-\eta} \notin [0, 1] \right]$$



$$\frac{4x+9}{7x+5}$$

$$1 \quad s \quad s^2$$

$$1, 2 \quad \}$$

$$1, 1, 2 \quad \}$$

$$t \longleftrightarrow \frac{u \cdot s}{(n-1) \cdot s + 1}$$



$$B_{\lambda}^M(t) = \binom{M}{\lambda} t^{\lambda} (1-t)^{M-\lambda} =$$

$$= \binom{M}{\lambda} \frac{s^{\lambda} \cdot s^{\lambda}}{[(n-1) \cdot s + 1]^{\lambda}} \cdot \frac{\overbrace{[(n-1) \cdot s + 1 - u s]^{M-\lambda}}^{(1-s)}}{[(n-1) \cdot s + 1]^{M-\lambda}} =$$

$$= \underbrace{\binom{M}{\lambda} s^{\lambda} (1-s)^{M-\lambda}}_{B_{\lambda}^M(s)} \cdot \frac{s^{\lambda}}{[(n-1) \cdot s + 1]^M}$$

$(1, 2, 3) \approx (10, 20, 30)$

M
 w_0, \dots, w_M ... nijolė

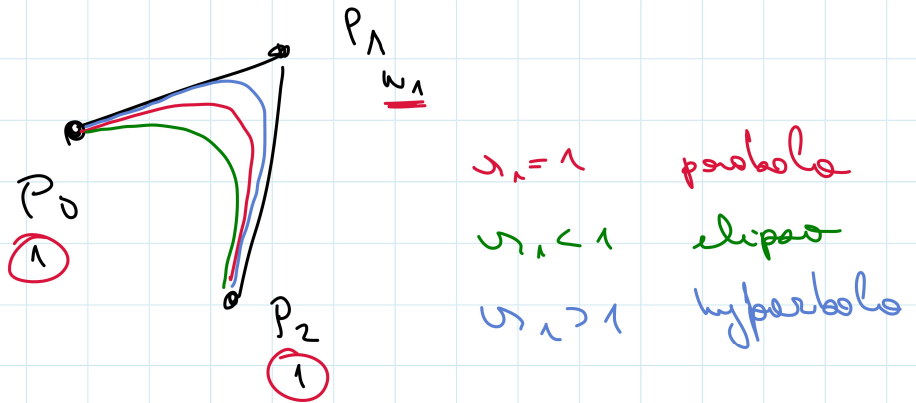
$\rightarrow \mu \cdot w_0, \dots, \mu w_M$... stejnė kreivė $c(t)$ - homogeninė

$\rightarrow w_0, \dots, w_M$... stejnė kreivė $c(s)$

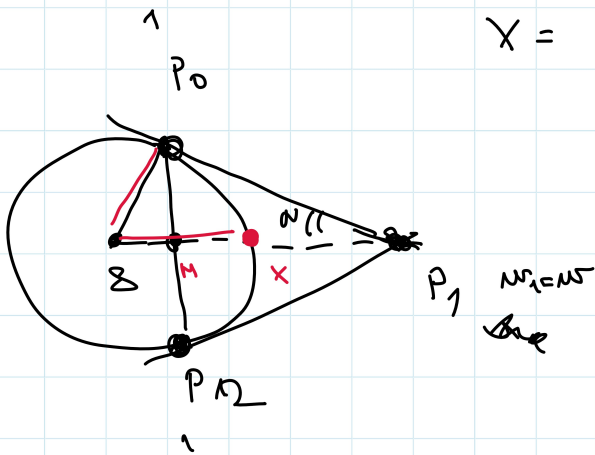
$$w_0, \dots, w_M \xrightarrow{\frac{1}{w_0}} 1, \tilde{w}_1, \dots, \tilde{w}_M \xrightarrow{\cdot u^i} \tilde{w}_1, \dots, \tilde{w}_M$$

$u = \frac{1}{\sqrt{\sum \tilde{w}_i^2}}$

rac. kreivė 2:



$$X = c\left(\frac{1}{2}\right) = \frac{\frac{1}{4}P_0 + \frac{w}{2}P_1 + \frac{1}{4}P_2}{\left(\frac{1}{2} + \frac{w}{2} + \frac{1}{4}\right)}$$



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

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

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