$R = \frac{\|c' \times c''\|}{\|c'\|^3}$

$c(t) = (t, t^2, t^3)$

$c' = (1, 2t, 3t^2)$

$c'' = (0, 2, 6t)$

$c''' = (0, 0, 6)$

$\|c'\| = \sqrt{1 + 4t^2 + 9t^4}$

$c' \times c'' = (6t^2, -6t, 2)$

$\|c' \times c''\| = \sqrt{36t^4 + 36t^2 + 4}$

$\tau = \frac{12}{36t^4 + 36t^2 + 4}$

k, τ

$c(1) \quad t = 1$

$= (1, 2, 3)$

$= (0, 2, 6)$

$= (0, 0, 6)$

$\det = 12$

$\vec{e}(1) = \frac{1}{\sqrt{14}}(1, 2, 3)$

$\det(c' | c'' | c''') = 12$

$k(1) = \frac{\|(1,2,3) \times (0,2,6)\|}{\|(1,2,3)\|^3} = \frac{\|(6, -6, 2)\|}{\sqrt{14}^3} = \frac{\sqrt{76}}{\sqrt{14}^3}$

$\tau(1) = \frac{12}{76}$

$\frac{\det(c' | c'' | c''')}{\|c' \times c''\|^2}$

$\vec{b} = \frac{c' \times c''}{\|c' \times c''\|} = \frac{1}{\sqrt{76}}(6, -6, 2)$

$\vec{n} = \vec{b} \times \vec{t}$

OBLOKKEM PAR

$s = \psi(t) = \int \|c'(t)\| \, dt =$

$= \int \sqrt{1 + 4t^2 + 9t^4} \, dt =$

$=$

(INVERZNI)

$s = \psi(t)$

$\varphi(s) = t$

OBLOKK

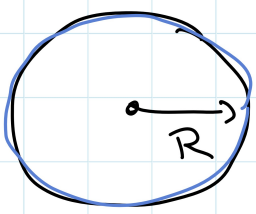
$c(t) = (R \cos t, R \sin t) \quad R > 0$

$c' = (-R \sin t, R \cos t)$

$\|c'\| = R$

$s = \int R \, dt = R \cdot t$

$t = \frac{s}{R}$



$2\pi R$

$t \in (-\pi, \pi)$

$s \in (-\pi R, \pi R)$

$c(s) = \left(R \cdot \cos \frac{s}{R}, R \cdot \sin \frac{s}{R}\right)$

$$\vec{b} = \frac{c' \times c''}{\|c' \times c''\|} = \frac{1}{\sqrt{76}}(6,-6,2) =$$

$$= \frac{1}{\sqrt{19}}(3,-3,1)$$

$$\vec{t} = \frac{1}{\sqrt{14}}(1,2,3)$$

$76 = 4 \cdot 19$

$$\vec{n} = \vec{b} \times \vec{t} = \frac{1}{\sqrt{19}\sqrt{14}}\left[(3,-3,1) \times (1,2,3)\right]$$

$$= \frac{1}{\sqrt{19}\sqrt{14}}\left[(-11,-8,9)\right]$$