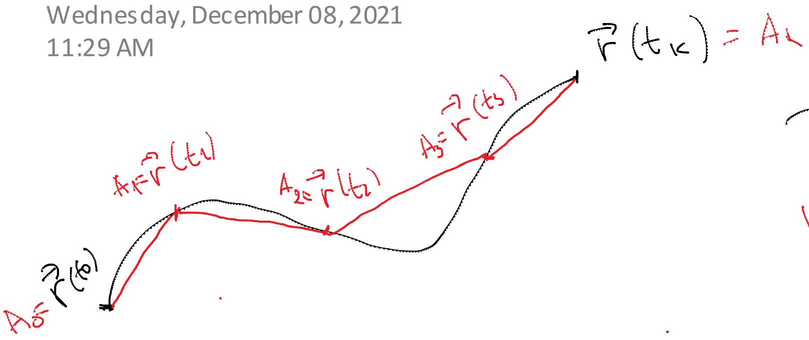
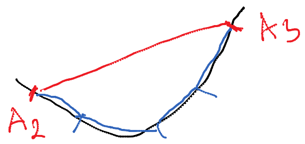
Wednesday, December 08, 2021
11:29 AM



$P: a = t_0 < t_1 < \dots < t_k = b$

r_p poligonalna linija

$$\ell(r_p) = \sum_{j=1}^{k} \|\vec r(t_j) - \vec r(t_{j-1})\|$$



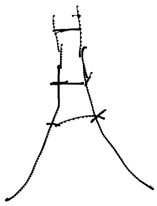
P': još sitnija

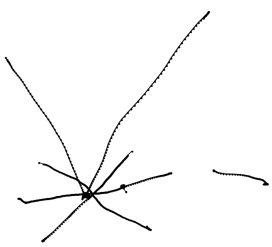
$a = t_0 < t_1 < \dots < t_n = b$

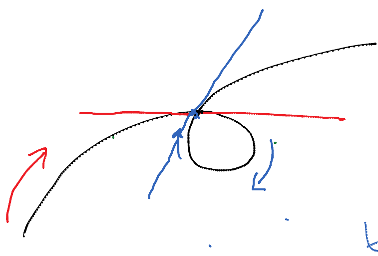
$n > k$

r_p' (finija)

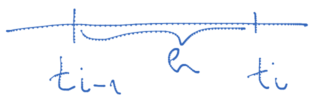
$$\ell(r_p) \leq \ell(r_{p'})$$



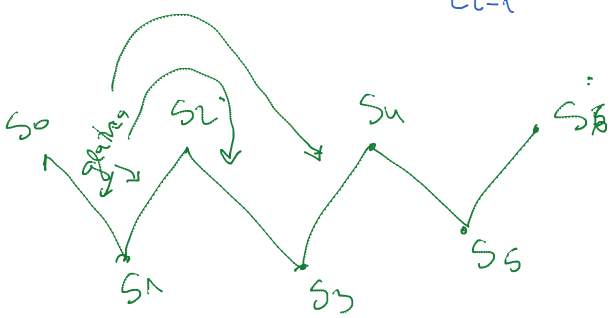


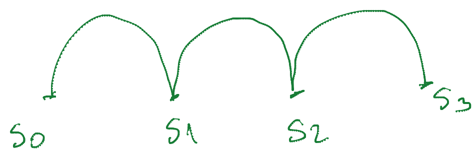


$$\frac{x_1(\overbrace{t_{i-1} + h}^{t_i}) - x_1(t_{i-1})}{h}$$



$h = t_i - t_{i-1}$





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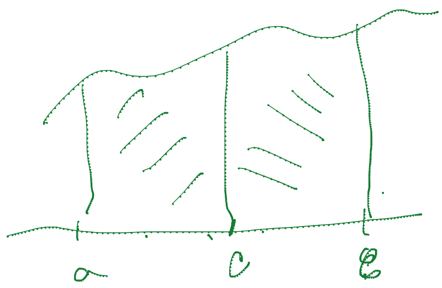
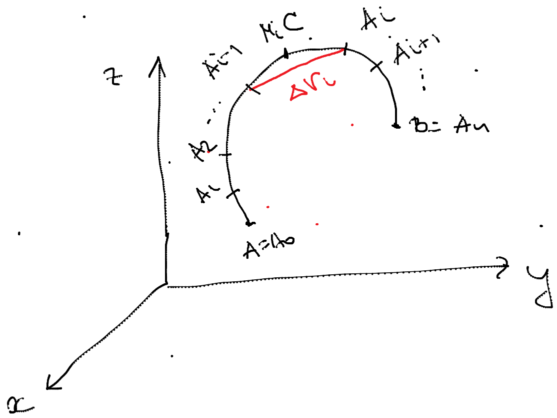


$\vec{i} = (1,0,0)$

sila



$$\vec{F} = P(x,y,z)\cdot\vec{i} + Q(x,y,z)\cdot\vec{j} + R(x,y,z)\cdot\vec{k}$$

$\overset{\frown}{A_{i-1}A_i}$ $\quad A_{i-1} = \vec{r}(t_{i-1})$

$M_i = \vec{r}(\tau_i)$ $\quad t_{i-1} < \tau_i < t_i$

$A_i = \vec{r}(t_i)$

$M_i = (x(\tau_i), y(\tau_i), z(\tau_i))$

$$F_i = P(M_i)\cdot\vec{i} + Q(M_i)\cdot\vec{j} + R(M_i)\cdot\vec{k}$$
$$= P(x(\tau_i), y(\tau_i), z(\tau_i))\cdot\vec{i} + Q(x(\tau_i), y(\tau_i), z(\tau_i))\cdot\vec{j} + Q(x(\tau_i), y(\tau_i), z(\tau_i))\cdot\vec{k}$$

rad = sila · put $\quad (\overset{\frown}{A_{i-1}A_i})$

$$W = F_i\cdot\Delta\vec{r}_i = F_i(\Delta x_i\cdot\vec{i} + \Delta y_i\cdot\vec{j} + \Delta z_i\cdot\vec{k})$$

$\Delta x_i = x_i - x_{i-1}$, $\Delta y_i = y_i - y_{i-1}$, $\Delta z_i = z_i - z_{i-1}$

rad $\overset{\frown}{AB}$

$$\sum_{i=1}^{n} F_i\cdot\Delta\vec{r}_i = [P(M_i)\cdot\vec{i} + Q(M_i)\cdot\vec{j} + R(M_i)\cdot\vec{k}]\cdot(\Delta x_i\cdot\vec{i} + \Delta y_i\cdot\vec{j} + \Delta z_i\cdot\vec{k})$$

$$\lim_{\substack{\Delta x_i \to 0 \\ \Delta y_i \to 0 \\ \Delta z_i \to 0}} \Big\}\Big\{ n\to\infty \quad R(\vec{F}, C) = \text{KRIVOLIN. II vrste}$$

OPŠTI

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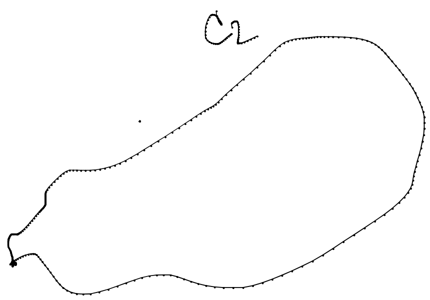

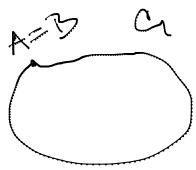

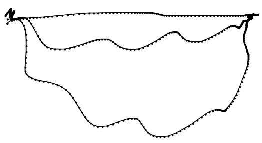

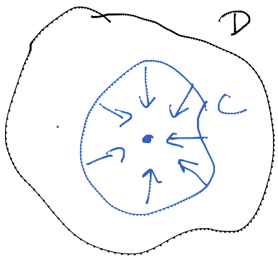

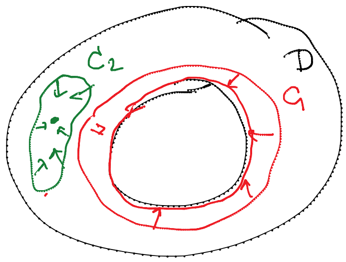

$a_n \le b_n$

$b_n = \underline{a_n} + c_n$ ✓

$$\underbrace{\sum b_n}_{\infty} = \underbrace{\sum a_n}_{\infty} + \sum c_n$$

$$\sum b_n = \sum (a_n + c_n)$$

X -da ako (k)

$$\sum a_n + \sum c_n$$