$$A_k = h \int_0^n \prod_{\substack{j=0 \\ j \neq k}} \frac{t-j}{k-j} dt$$

$$\frac{A_k}{b-a} = \frac{h}{b-a} \int_0^\pi \prod_{\substack{j=0 \ k-j}} \frac{t-j}{k-j} dt = \frac{1}{n} \int_0^\pi \prod_{\substack{j=0 \ k-j}} \frac{t-j}{k-j} dt$$

When,  $\dot{z} = \frac{1}{k-j} \in \mathbb{Q}$ , be k is squithouth or  $\dot{z} = \frac{1}{n} \in \mathbb{Q}$ , be  $\dot{z} = \dot{z} = 0$ .

Musimy sprandić, czy catka Jo [1] (t-j) at jest licsa cymema.

$$\int_{0}^{n} \prod_{\substack{j=0\\j\neq k}} (t-j) dt = \int_{0}^{n} t(1-1)...(t-k-1)(t-k+1)...(t-n) dt =$$

= 
$$\int_{0}^{n} (a_{n}t^{n} + a_{n-1}t^{n-1} + ... + a_{o})_{o}tt = \int_{0}^{n} a_{n}t^{n}dt + \int_{0}^{n} a_{n-1}t^{n-1}dt + ... + \int_{0}^{n} a_{o}dt =$$

$$= -\alpha_{n} \cdot \frac{n^{n+1}}{n+1} - \alpha_{n-1} \cdot \frac{n}{n} - \alpha_{n-2} \cdot \frac{n^{n-1}}{n-1} - \dots - \alpha_{0} \cdot \frac{n}{1}$$

Wszysthie n i o: sa catkoute, viec ta cotha jest vyniema, cryb cote vynazenie jest vynieme.