

$$\int \frac{1}{\cos^3 t} dt = \left| \begin{array}{l} u = \sin t \\ du = \cos t dt \end{array} \right| =$$

$$= \int \frac{1}{\cos^3 t} \cdot \frac{1}{\cos t} du = \int \frac{1}{\cos^4 t} du =$$

$$= \int \frac{1}{(1-u^2)^2} du \stackrel{\downarrow}{=} \int \frac{1}{(1-u^2)^2} du$$

$$\begin{aligned}
 & \frac{1}{\sqrt[4]{1+X^6}} \rightarrow \frac{1}{\sqrt[4]{1+\frac{1}{t^2-1}}} \\
 & \left(X^4 = \frac{1}{t^2-1} \right) = \left(\frac{t^2-1+1}{t^2-1} \right)^{-\frac{1}{4}} = \\
 & = \left(\frac{t^2}{t^2-1} \right)^{-\frac{1}{4}} = \left(\frac{t}{\sqrt[4]{t^2-1}} \right)^{-1}
 \end{aligned}$$

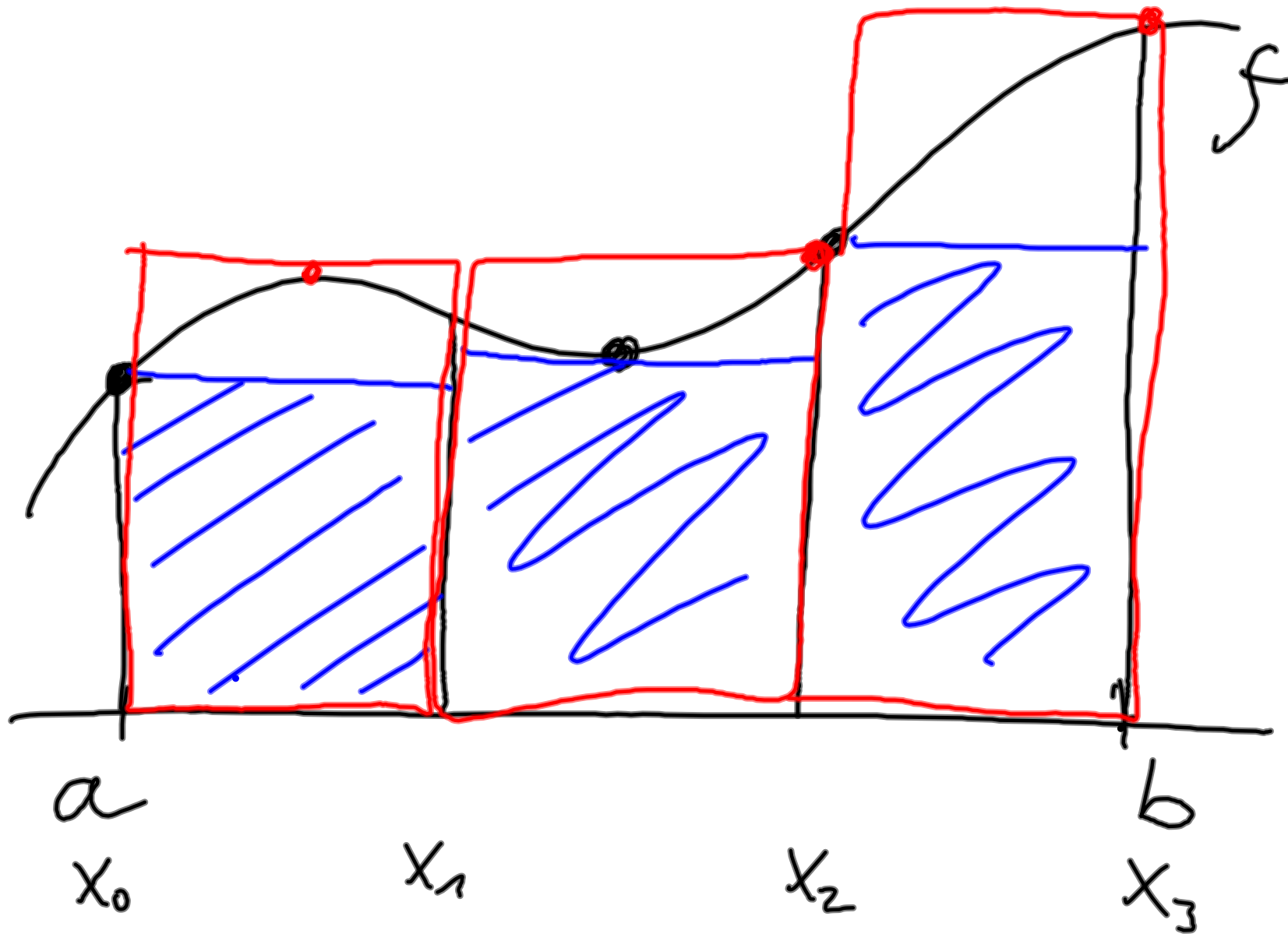
$$\int \frac{\ln x}{x} dx = \left| \begin{array}{l} t = \ln x \\ dt = \frac{1}{x} dx \end{array} \right| =$$

$$= \int t dt = \frac{t^2}{2} + C = \frac{\ln^2 x}{2} + C =$$

(= $\ln^2 \sqrt{x} + C$..)

$$\left(\int \frac{x}{\ln x} dx \right) \left| \begin{array}{l} t = \ln x \\ dt = \frac{1}{x} dx \end{array} \right| =$$

$$\left\{ = \int \frac{x^2}{t} dt = \dots \right\} \quad \underbrace{\quad \quad \quad} \underbrace{\quad \quad \quad}$$



$\varepsilon \dots \text{LIB. PEVNÉ}$



$$d(I_i) < \frac{\varepsilon}{4}$$

$$\parallel \frac{\varepsilon}{10}$$

10 + HZ.B.

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$$\frac{\sum}{10} \cdot \infty = 0 \cdot \infty$$

$$Q(x) = \frac{2x^{14} + 5x^{13} + 3x^{12} - 10x^{11} - 22x^{10} + 11x^9 +$$

$$+ 116x^8 + 298x^7 + 507x^6 + 975x^5 + 1440x^4 +$$

$$\frac{(x+1) \cdot (x-2)^2 \cdot (x^2+2x+2) \cdot (x^2-x+1) \cdot (x^2+x+2)^3$$

$$+ 2220x^3 + 1744x^2 + 1280x + 128$$

$$Q(x) = \underline{2x+3} + \underline{\frac{-4}{x+1}} + \underline{\frac{5}{(x-2)^2}} - \underline{\frac{7}{x^2+2x+2}}$$
$$+ \underline{\frac{2x+5}{x^2-x+1}} + \underline{\frac{2-3x}{(x^2+x+2)^3}}$$

$$\int Q(x) dx = ?$$

