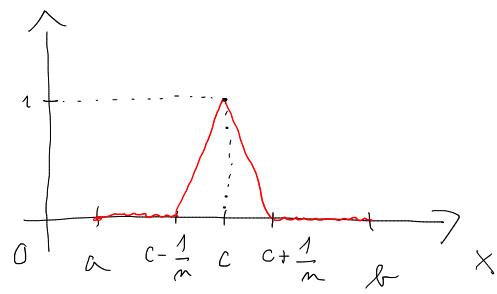


P22

$$\underline{f_n(x)}$$



$\underline{s_I} : f(x) \equiv 0$ na $[a, b]$

$$0 \leq \underline{s_I}(f_n, f) = \int_a^b |f_n(x) - f(x)| dx = \int_a^b f_n(x) dx = \text{obsah } \Delta = \frac{c + \frac{1}{n} - (c - \frac{1}{n})}{2}$$

$$= \frac{1}{n} \xrightarrow[n \rightarrow \infty]{} 0 \quad \dots \quad \underbrace{f_n \xrightarrow[\underline{s_I}]{} f}$$

$\underline{s_c} : \underline{s_c}(f_n, f) = \max_{x \in [a, b]} |f_n(x) - f(x)| = \max_{x \in [a, b]} |f_n(x)| = 1 \leq$

$$\begin{matrix} f_n & \not\rightarrow & f \\ \underline{s_c} & & \end{matrix}$$

P30

$$x^{[1]} \rightarrow x_1^{[1]} \downarrow x_2^{[1]} \downarrow x_3^{[1]} \dots$$

$$x^{[2]} \rightarrow x_1^{[2]} \downarrow x_2^{[2]} \downarrow x_3^{[2]} \dots$$

$$x^{[3]} \rightarrow x_1^{[3]} \downarrow x_2^{[3]} \downarrow x_3^{[3]}$$

$$\begin{matrix} & & \downarrow & & \downarrow & & \downarrow \\ n \nearrow \infty & \downarrow & & \downarrow & & \downarrow & & \end{matrix}$$

$$x \rightarrow x_1 \quad x_2 \quad x_3$$