Mar I.
$$X_1 \cup X_2 = w_0 \text{ popuyne } (*)$$

$$f(x_1) f(x_2)$$

$$f = \frac{1}{5} \cdot \frac{$$

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$$T = \frac{\sqrt{5}}{2}$$

$$E_n = \frac{6-a}{2}$$

$$\text{Mar 2.} \quad E_n > E - \text{mar 3}, \text{ unare mar 24.}$$

$$\text{Mar 3} \quad \text{easy } f(x_1) \leq f(x_2) + 0$$

Mar 3. Eem
$$f(x_1) \leq f(x_2)$$
, to

$$b = x_2$$
, $\begin{pmatrix} x_2 = x_1 \\ f(x_1) \end{pmatrix} = b - \tau (b - a)$

where
$$a = x_1, x_1 = x_2, f(x_1) = f(x_2)$$

 $x_2 = b - \tau(b - a)$
 $f(x_2) \leftarrow borrowrb$

$$E_n = \tau E_n$$
, never og war. 2.

$$\text{Mar4.} \quad x^* = \overline{x} = \frac{a_{(n)} + b_{(n)}}{2} \qquad f^* \approx f(\overline{x}).$$

Merog Pusonazzu

$$F_{n+2} = F_{n+1} + F_n$$
, $n = 1, ...$

$$F_1 = F_2 = 1$$

$$F_1 = F_2 = 1$$

$$F_{n} = \begin{pmatrix} 1 + \sqrt{5} \end{pmatrix}^{n} - \begin{pmatrix} 1 - \sqrt{5} \\ 2 \end{pmatrix}^{n} / \sqrt{5}$$

$$F_{n} \approx \left(\frac{1+\sqrt{5}}{2}\right)^{n} / \sqrt{5} \qquad (n \rightarrow p)$$

brepayue 0:

$$X_1 = a + \frac{F_n}{F_{n+2}}(b-a)$$
; $X_2 = a + \frac{F_{n+1}}{F_{n+2}}(b-a) = \frac{F_{n+1}}{F_{n+2}}(b-a)$

$$= a + b - x$$

 $[F_{n-K+3}]$ $[F_{n+2}]$ $X_{\lambda} = a_{K} + \frac{F_{n-K+2}}{F_{n-K+3}} (b_{K} - a_{K}) = a_{K} + \frac{F_{n-K+2}}{F_{n+2}} (b_{o} - a_{o})$ $\frac{b_n - a_n}{2} = \frac{b_o - a_o}{F_{n+2}} \angle E = h?$ $\frac{60-00}{\varepsilon}$ \leq $\frac{1}{100}$ Korga N-Johanne => Fn - Secremental napason yn XXXXX xi, xxxx e [a, b] f(x1) > f(x2) \(\frac{1}{2} \) \(\frac{1}{2} \ $\times_1 \angle \times_2 \angle \times_3$ $Q(x) = a_0 + a_1(x - x_1) + a_2(x - x_1)(x - x_2)$ $q(x_1) = f(x_1) = f_1$ $q(x_2) = f(x_2) = f_2$ $g(x_3) = f(x_3) = f_3$ $G_0 = f_1 \quad \alpha_1 = \frac{f_1 - f_1}{\chi_1 - \chi_1}$ $Q_{1} = \frac{1}{x_{5}-x_{2}} \left(\frac{f_{3}-f_{1}}{x_{3}-x_{1}} - \frac{f_{2}-f_{1}}{x_{2}-x_{1}} \right)$ $\overline{X} = \frac{1}{2} \left(X_1 + X_2 - \frac{\alpha_1}{\alpha_2} \right) - \frac{\mu \mu \mu \mu \mu \mu \mu}{\mu \alpha \beta \alpha \delta \alpha \delta \alpha \delta \alpha} \left(q \alpha \right)$

Iaruuu 2 rune Can 3

X-orepeque musmineme x x* quincien f(x)
garee volomepale que volor more x1, x2, x3,
yozobnerloparousux yourburn (**).

- Ma vanegoù urepausur (kpone replon) onpegendemal mo vevo ogto noloce zuarenne flx).
- Judeul oxowcanus noucka Snuzocomo k nymo pazuo comu Δ rucen X, hati genusy non + exqueset u njegorogyzusen umeparguex : $|X_i X_{i-1}| = \Delta \leq E$
- Bosse X1, X2, X3 (Maburo britopa)

 noche karregoù umepaiseur mobepumo, kyga
 novagaet X.

1. - early $X_1 \angle X \angle X_2 \angle X_3$ u $f(X) \ge f(X_2)$, To $X^* \in [X; X_3]$, $X_1 = X$, $f(X_1) = f(X)$, Touku X_2 u X_3 ($f(X_1)$ u $f(X_3)$) he herefore

- early $x_1 < \overline{x} < x_2 < x_3$ of $f(\overline{x}) < f(x_2)$, mo $x^* \in [x_1, x_2]$, $x_1 = x_1$ (He against etc.) $x_3 = x_2 \qquad f(x_3) = f(x_2)$ $x_2 = \overline{x} \qquad f(x_2) = f(\overline{x})$
- 2 eenu $X_1 \subset X_2 \subset X \subset X_3$ u $f(X_2) \nearrow f(\overline{X})$, To $X^* \in [X_2, X_3]$, $X_1 = X_2$, $f(X_1) = f(X_2)$, $X_2 = \overline{X}$, $f(X_2) = f(\overline{X})$, Toyka X_3 u $f(X_3)$ we uzwellow T car.
 - = ecru $\times_1 \leftarrow \times_2 \leftarrow \times < \times_3$ u $f(x) \nearrow f(x_2)$ mo $\times^* \in [\times_1, \times]$; $\times_1 \text{ne}$ uzuemerce $\times_3 = \times$, $f(\times_3) = f(\times)$; $\times_2 \text{ne}$ uzuemerce

mouzbonbutu ospazom Mar L:

Du replect utepenum orpegenuto morku x1, x2, x3, yezobrelo perouse yezobure (* *), bormenuto $+(x_1), f(x_2), f(x_3).$

Bagato Tourocto E. Tiepexog K mary 2.

Mar 2: Bornero a., a_1, a_2 $u \times (\overline{X_i})$

Mar 3: (monyemuto que replote umepasseen) bouncemento $\Delta = |X_i - X_{i-1}|$, mobeputo $\Delta \leq \mathcal{E}$

Earn toumato & yournigra, to boxog > x = X;

mare mor 4

Mar 4. Borusonuro f(x), repexog k mar 5.

Mar 5. Orpegenute nobre touku X1, X2, X3, uono 163ys npaleuno leune.

Teperog k chegypousett umepayall