La curs: Metade rumenire pendru a prox. sol. ec. nelin. f(x) = 0. $f: [a, l_2] \to \mathbb{R}$

$$f \cdot [a_1b_1] \rightarrow R$$

$$\frac{4g}{x^2-1} = 0 \quad \text{sd} \quad x = 1$$

$$x^2-1 = 0 \quad \text{sd} \quad x = \pm 1$$

$$x^2+1 = 0 \quad \text{sd} \quad x = \pm i \in \mathbb{C}$$

DBS: Het. num. considerate vor aprox. sol. ER all f(x) = 0

C.g.
$$(\chi - e^{-\chi})(\chi - \kappa_0 \chi)$$
 Sol? Diffuil/imporbil du de(!

Ideea: (Alternativa) Consider o met numeria (i.e. sa pot sadet. o oproxasol)

Hai ovat all in (i)

Hai exact, construin
$$(xn)_n$$
 at. $x_n \xrightarrow[n \to \infty]{} x^*$

$$f(x^*)=0$$

Metoda Bisectici f(x*) = 0 I: [a,b] -R cont. Obs. f(a). f(b) < 0 + f cont =) f schindra senul (posibil de mai multe Alg. Bisectiei va que xn ràd. f et simplitate pp là schimba

Metoda Bisectici 7: [a, b] -R cont.

 $\chi = \frac{a+b}{2}$.

The atatherms at the operation of the satisfactors and subject to the operation of the satisfactors of the

(riteria de oprime : — our abs < TOL

(extra dedia o TOL)

our rel < TOL

(extra dedia o TOL)

our rel < TOL

(Ex1)
$$f(x_n) \approx 0$$

or rels = $|val.ex - val.eprox|$

or rels run = $|x_n + 1 - x_n|$

or rel nun = $|x_n + 1 - x_n|$

or rel nun = $|x_n + 1 - x_n|$