TW.

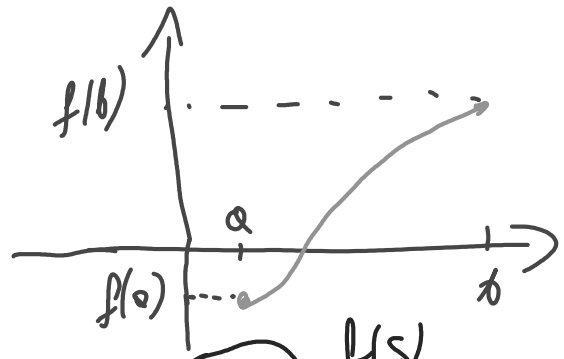
jeśli f ciągła

oraz zm się wart na końcu przed to

f. ma nie zer

jeśli $f(a) \cdot f(b) < 0$

to f ma nie zerow



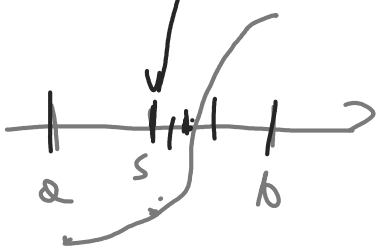
f(s)

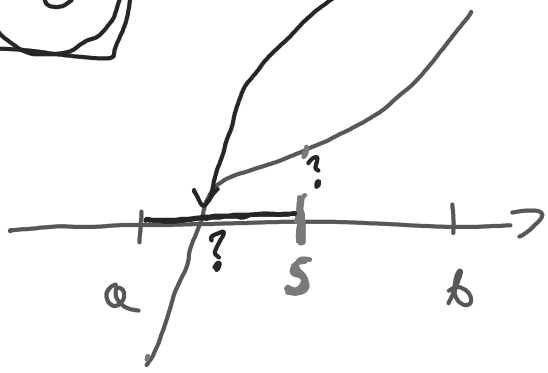
współrzędne

$$\boxed{S = \frac{a+b}{2}}$$

długość

$$S = \frac{b-a}{2}$$





$$\frac{b-a}{2} + a =$$

$$\frac{b-a}{2} + \frac{2a}{2} = \frac{a+b}{2}$$

$f(a) \cdot f(s) > 0$

$\Downarrow$

(s, b)

$f(a) \cdot f(s) < 0 \Rightarrow (a; s)$

---

epsylon, n – ilość kroków $f(s) = 0$

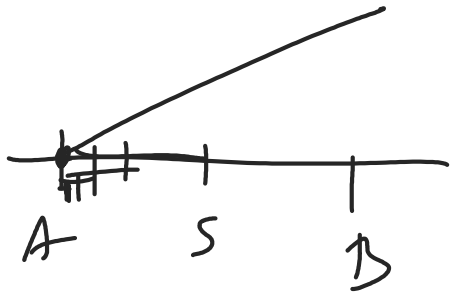
$s = \frac{a+b}{2}$

for i in range(n): ← if $f(s) == 0$ return s

if $f(a) \cdot f(s) < 0$

$b = s$ $\langle a, b \rangle \Rightarrow \langle a, s \rangle$

else: $a = s$ return s $\Big| \frac{a+b}{2}$


A
S
B