

HERON-Verfahren $\text{sqrt}(x)$

Read (a)

while (a \leq 0) ?

Read (epsilon)

(epsilon \leq 0) ?

$x := a$

$y := 1$

$n := 0$

while (abs ($x * x - a$) $>$ epsilon) ?

$n := n + 1$

$x := (x + a) / 2$

Write (a, x , $\text{sqrt}(x)$, n)