Design

$e()$

$$\frac{x^{k-1}}{(k-1)!} \times \frac{x}{k} \quad \frac{x^k}{k!}$$

$x=1 \quad k=1$

$$\frac{1^{1-1}}{(1-1)!} \times \frac{1}{1} \Rightarrow \frac{1^0}{0!} \times \frac{1}{1}$$

$$\frac{1}{1} \times \frac{1}{1}$$

for (i=0 to 10) {

$x^k = \quad x *= x$

$k! = \quad k *= k-1$

$$e = \frac{x*}{k*}$$

$$\sum_{k=0}^{\infty} \frac{(-3)^{-k}}{2k+1}$$

Madhara

for loop

$$num = \frac{1}{-3^k} = \frac{1}{-3}, \frac{1}{-3}, \frac{1}{-3} \ldots$$

denum = 2k+1

total += num/denum

Scanned with CamScanner

euler

$$p(n) = \sqrt{6 \sum_{k=1}^{\infty} \frac{1}{k^2}}$$

$\sum_{k=1}^{\infty} \frac{1}{k^2}$ = for loop {

k *= k

frac = 1/k

tot += frac }

tot = 6 x tot

sqrt(tot)

return

Scanned with CamScanner

VIETE

pi_viete (void)

counter=1 1st term = $\sqrt{2}$

num =

double approx = num / 2

while absolute (approx > EPSILON) {

counter+1 num = sqrt (2 + num) ;

approx *= num / 2 ;

}

return (2 x approx) ;

static uint32_t counter = 0

newton

Given