

Regula Falsi Method.

Algorithm.

Step 1: Define function $f(x)$

Step 2: input: a) Lower and upper guesses a and b
b) tolerable error e

Step 3: If $f(a) * f(b) > 0$
 print "incorrect initial guesses"
 goto step 2
endif

Step 4:

Do

$$c = b - (f(b) * (b - a)) / (f(b) - f(a))$$

if $f(a) * f(c) < 0$

$$b = c$$

else

$$a = c$$

endif

while $(\text{fabs}(f(c)) > e)$

// fabs returns absolute value

Step 5: Print root c .

Step 6: Stop.