**Algorithm for Regula Falsi Method**

Here f(x) is given function, x0 and x1 are two initial approximations.Epsilon is the prescribed tolerance in the root, and delta is the prescribed lower bound for the slope of f(x).

1. Start
2. Define function f(x)
3. Input
4. read: x0,x1,m,delta
5. read: epsilon
6. set f0 = f(x0)

set f1 = f(x1)

if(f0 \* f1>0) then

write: “Initial approximation are

unsuitable”

exit

endif

1. do

if(fabs(f1 – f0)<=delta) then

write: “Slope of the function

become too small”

exit

endif

set m = (x0\*f1 – x1\*f0) / (f1 – f0)

set f2 = f(m)

if(f1 \* f2<0) then

set x1 = m

set f1 = f2

else

set x0 = m

set f0 = f2

endif

while(fabs(x0 – x1)>epsilon) & (f2 is

not equal to 0)

1. write: m, “as the approximate root”
2. Stop