Regula-Falsi Method

Algorithms

* Start
* read x0 & x1, two initial guesses.
* Enter Allowed error and Max iterations.
* Take x0=1 & x1=3
* f(x0)=-0.3908 and f(x1)=16, in equation (2) we get x3=2.0813
* (x0) and f(x1) are not same.
* f0=f(x0)
* f1=f(x1)
* for i=1 to n in steps of 1 do
* x2=(x0f1-x1f0)/(f1-f0)
* f2=f(x2)
* if |f2|<e then
* begin Write ‘convergent solution’, x2,f2
* stop end
* if sign (f2)=sign f(0)
* then begin x0=x2
* f0=f2
* else begin x1=x2
* f1=f2
* write ‘Does not converge in n iterations’
* write x3,f2
* stop