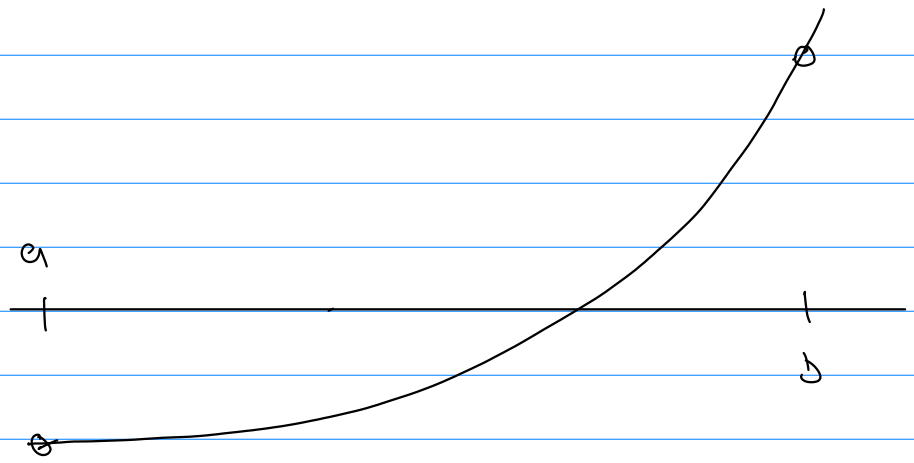
Regula Falsi

Modification of midpoint meth.

Let and be known such that

Draw a line connecting



$y(s) =$

$\Rightarrow s =$ $=$ $=$

Simler to bef ore :

Determine s

If $|b-a| < \delta$ return as the root.

$f(a)f(s) < 0$, Set as new interval & repeat

$f(s)f(b) < 0$, Set as new interval & repeat

$|f(s)| < \varepsilon$ return as the rout

Convergence is than

mid - point but still .

Also will always converge if .