## Regula falsi method

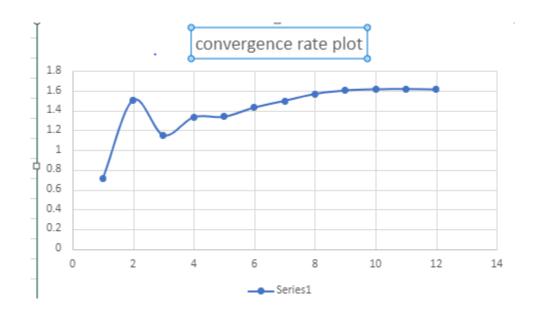
#### Algorithm

- > Set the value of a and b;
- Checking condition f(a)f(b)<0;</p>
- ightharpoonup Then x = (af(b)-bf(a))/f(b)-f(a);
- $\triangleright$  Then checking condition if f(x)f(b)<0;
- Then set a=x;
- $\triangleright$  Else if f(x)f(a)<0;
- $\triangleright$  Set b = x;
- > Then calculate x and repeat it;

#### Secant method

## Algorithm

- Set the value of x[i-1] and x[i];
- > Set the value of t;
- $\triangleright$  Check f(x[i])f(x[i-1])<0;
- > Then x[i+1] = x[i-1]f[x[i]]-x[i]f[x[i-1]]/f[x[i]]-f[x[i-1]];
- > Repeat it till x[i]-x[i-1]<t condition;



## Newton method's method

# Algorithm

- Set the initial value x[0];
- > Set the initial value t;
- ightharpoonup X[i+1]=x[i]-f[x[i]]/df[x[i]];
- Proceed the iteration till condition x[i+1]-x[i]<t satisfy;</p>



