Program Newton Repson Menghitung e­-x-x

import java.lang.Math;

import java.text.DecimalFormat;

class Newton{

public static void main(String[] args) {

double x0 =0, fx0, fx1, x3, asli=0.56714329, ea, er, ee, sm;

Newton b = new Newton();

DecimalFormat s = new DecimalFormat("0.00");

for(int i=1; i<=3; i++){

fx0 = b.fungsi(x0);

fx1 = b.fungsi1(x0);

x3 = x0 -((fx0)/(fx1));

er = (x3-asli)/asli\* 100;

System.out.println("X"+i+" = "+x3 );

System.out.println("Er = "+s.format(Math.abs(er)) );

x0 = x3;

System.out.println("\n\n");

}

}

public double fungsi(double x){

return Math.exp(-x)-x;

}

public double fungsi1(double x){

return -Math.exp(-x)-1;

}

public String p2d(double x){

DecimalFormat df = new DecimalFormat("0.####");

return df.format(x);

}

}

