Program Regula Falsi Menghitung e­-x-x

import java.lang.Math;

import java.text.DecimalFormat;

class Regulafalsi{

public static void main(String[] args) {

double x1 =0, x2=1, x3, fx1, fx2, fx3, er, asli=0.56714329;

Regulafalsi r = new Regulafalsi();

DecimalFormat s = new DecimalFormat("0.00");

for(int i=1; i<=5; i++){

fx1 = r.fungsi(x1);

fx2 = r.fungsi(x2);

x3 = x2 - (fx2\*(x1-x2))/(fx1-fx2);

fx3 = r.fungsi(x3);

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

System.out.println("Literasi = "+(i));

System.out.println("X1= "+(x1));

System.out.println("X2= "+(x2));

System.out.println("X3= "+(x3));

System.out.println("FX1= "+(fx1));

System.out.println("FX2= "+(fx2));

System.out.println("FX3= "+(fx3));

System.out.println("ER= "+s.format(er));

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

if(fx1\*fx1 < fx2\*fx2){

x1 = x3;

}else{

x2 = x3;

}

}

}

public double fungsi(double x){

return Math.exp(-x)-x;

}

public String p2d(double x){

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

return df.format(x);

}

}

