Program Bolzano Menghitung x3+x2-3x-3

import java.lang.Math;

import java.text.DecimalFormat;

class Bolzano{

public static void main(String[] args) {

double x1 =1, x2=2, x3 = 0, fx1, fx2, fx3, asli=0.56714329, er;

Bolzano b = new Bolzano();

System.out.println(" X1\t\tX2\t\tX3\t\tFX1\t\tFX2\t\tFX3\t\tError");

for(int i=1; i<=10; i++){

fx1 = b.fungsi(x1);

fx2 = b.fungsi(x2);

x3 = (x1+x2)/2;

fx3 = b.fungsi(x3);

er = 0-fx3;

System.out.println(" "+b.p2d(x1)+"\t\t"+b.p2d(x2)+"\t\t"+b.p2d(x3)+"\t\t"+b.p2d(fx1)+"\t\t"+b.p2d(fx2)+"\t\t"+b.p2d(fx3)+"\t\t"+b.p2d(er));

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

x2 = x3;

}else{

x1 = x3;

}

}

}

public double fungsi(double x){

return Math.pow(x, 3)+Math.pow(x, 2)-3\*x-3;

}

public String p2d(double x){

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

return df.format(x);

}

}