import java.util.Scanner;

public class Week3\_QuadraticFormula {

public static void main(String[] args) {

double a, b, c, Xplus, Xminus;

System.out.print("Input 3 real numbers for a, b, and c. \n");

Scanner scnr = new Scanner(System.in);

a = scnr.nextDouble();

b = scnr.nextDouble();

c = scnr.nextDouble();

double discriminant = (Math.pow(b, 2) - (4 \* a \* c));

if(a == 0){

System.out.print("Divide by zero error");

}

else if (discriminant < 0){

System.out.print("Yields imaginary number. Cannot calculate.");

}

else{

double squareRoot = Math.sqrt(discriminant);

Xplus = (-b + squareRoot) / (2 \* a);

Xminus = (-b - squareRoot) / (2 \* a);

System.out.print(Xplus + ", " + Xminus);

}

}

}