**C++ program to Find All the Roots of a Quadratic Equation.**

**#include<iostream>**

**#include<math.h>**

**using namespace std;**

**class roots**

**{**

**int b,a,c,d1,d2;**

**public:**

**void input()**

**{**

**cout<<"enter the quardatic equn coefficent a,b,c "<<endl;**

**cin>>a>>b>>c;**

**cout<<"equ is: "<<a<<"\*x^2 + "<<b<<"\*x + "<<c<<" ";**

**}**

**void output()**

**{**

**d1 = ((-b)-(sqrt(b\*b-4\*a\*c)))/2\*a;**

**d2 = ((-b)+(sqrt(b\*b-4\*a\*c)))/2\*a;**

**cout<<"the roots are d1="<<d1<<" and d2="<<d2<<"";**

**}**

**};**

**main()**

**{**

**roots r;**

**r.input();**

**r.output();**

**}**