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Main.java

```java
 9  import java.util.*;
10  import java.lang.*;
11
12  public class Main
13 {
14        public static void main(String args[])
15        {
16            Scanner scan= new Scanner(System.in);
17            double a=scan.nextDouble();
18            double b= scan.nextDouble();
19            double c= scan.nextDouble();
20            double d= (b*b)-(4*a*c);
21            if(d==0)
22            {
23                double r1 = -b/(2*a);
24                double r2 = r1;
25                System.out.println(r1);
26                System.out.println(r2);
27                System.out.println("Roots are real and equal");
28            }
29            else if (d>0)
30            {
31                double r1=(-b+Math.sqrt(d))/(2*a);
32                double r2=(-b-Math.sqrt(d))/(2*a);
33                System.out.println(r1+""+r2);
34                System.out.println("Roots are real and distinct");
35            }
36            else
```

```java
double a=scan.nextDouble();
double b= scan.nextDouble();
double c= scan.nextDouble();
double d= (b*b)-(4*a*c);
if(d==0)
{
    double r1 = -b/(2*a);
    double r2 = r1;
    System.out.println(r1);
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    System.out.println("Roots are real and equal");
}
else if (d>0)
{
    double r1=(-b+Math.sqrt(d))/(2*a);
    double r2=(-b-Math.sqrt(d))/(2*a);
    System.out.println(r1+""+r2);
    System.out.println("Roots are real and distinct");
}
else
{
    double r1= -b/(2*a);
    double r2= (Math.sqrt(-d))/(2*a);
    System.out.println("Roots are imaginary");
    System.out.println(r1+"i"+r2);
    System.out.println(r1+"-i"+r2);
}
}
}
```

```
                  System.out.println(r1);
26                System.out.println(r2);
27                System.out.println("Roots are real and equal")
```

4 4 1
-0.5
-0.5
Roots are real and equal

...Program finished with exit code 0
Press ENTER to exit console.

Type here to search

```
20      double d= (b*b)-(4*a*c);
21      if(d==0)
22      {
23          double r1 = -b/(2*a);
24          double r2 = r1;
25          System.out.println(r1);
26          System.out.println(r2);
27          System.out.println("Roots are real and equal");
```

```
1 5 6
-2.0-3.0
Roots are real and distinct


...Program finished with exit code 0
Press ENTER to exit console.
```

```
21    if(d==0)
22 -   {
23         double r1 = -b/(2*a);
24         double r2 = r1;
25         System.out.println(r1);
26         System.out.println(r2);
27         System.out.println("Roots are real and
```

```
1 1 1
Roots are imaginary
-0.5i0.8660254037844386
-0.5-i0.8660254037844386


...Program finished with exit code 0
Press ENTER to exit console.
```