

**Lab Goal :** This lab was designed to teach you more about objects, input, output formatting, and the Math class.

**Lab Description :** Given the values of a quadratic equation, calculate the two possible answers.

$$x = \frac{-b \pm \sqrt{b^2 - 4 \cdot a \cdot c}}{2 \cdot a}$$

### Sample Data :

```
5 -8 3
3 2 -7
9 6 1
```

### Files Needed ::

```
Quadratic.java
Lab03c.java
```

### Sample Output :

```
Enter a :: 5
Enter b :: -8
Enter c :: 3
```

```
rootone :: 1.00
roottwo :: 0.60
```

```
Enter a :: 3
Enter b :: 2
Enter c :: -7
```

```
rootone :: 1.23
roottwo :: -1.90
```

```
Enter a :: 9
Enter b :: 6
Enter c :: 1
```

```
rootone :: -0.33
roottwo :: -0.33
```

### Additional Test Data

7x<sup>2</sup>-2x-3=0

roots :: 0.81      -0.52

1y<sup>2</sup>-6y-1=0

roots :: 6.16      -0.16

**Allow .01 variance on the answers.**

### FORMATTING OUTPUT

```
//printf is a void method
System.out.printf("%.3f\n",9.541724);           //outs 9.542

//format is a String return method
System.out.println(String.format("%.3f",9.541724)); //outs 9.542
```