

Expression Student Challenge #4

1. Finding roots of quadratic equations

eg : $ax^2 + bx + c = 0$

Roots :

$$r1 = -b + \sqrt{b^2 - 4ac} / 2a$$

$$r2 = -b - \sqrt{b^2 - 4ac} / 2a$$

If $\sqrt{b^2 - 4ac}$ will give negative value than it will become complex number

```
import math

a = int(input('enter a value'))
b = int(input('enter b value'))
c = int(input('enter c value'))
root1 = (-b + math.sqrt(b**2 - 4 * a * c))/(2*a) #in math module we are taking square root (sqrt)
root2 = (-b - math.sqrt(b**2 - 4 * a * c))/(2*a) #sqrt cant find the value for negative
print('roots are ', root1, root2)
```