Problem Set 1 Exercise #10: Root of Linear Equation

Reference: Lecture 2 notes

Learning objectives: Writing functions; Math functions

Estimated completion time: 20 minutes

Problem statement:

In algebra, we have studied that second degree linear equations always have two roots.

Write a program **root.c** that reads three coefficients *a*, *b*, *c* representing the equation $a x^2+bx+c=0$, prints out the bigger one between its two roots. You may assume that both roots are real numbers in all the test cases.

Your program should define a function **`get_root()`** that takes three coefficients as parameters and returns the bigger root.

Correct your output of real number to two decimal places.

Sample run #1:

```
Enter coefficients (a b c): 1 -8 15
Bigger root is 5.00
```

Sample run #2:

```
Enter coefficients (a b c): 2 7 3
Bigger root is -0.50
```