C- Pool

problem 34

The roots of equation

Example description

Write C code to compute the real roots of the equation: ax2+bx+c=0.
The program will prompt the user to input the values of a, b, and c.
It then computes the real roots of the equation based on
the following rules:-if a and b are zero=> no solution
-if a is zero=>one root (-c/b)
-if b2-4ac is negative=>no roots

Otherwise=> two roots The roots can be computed using the following formula:

$$x1 = \frac{-b+\sqrt{b^2-4ac}}{2a}$$

$$x2 = \frac{-b-\sqrt{b^2-4ac}}{2a}$$

Used library < math.h>

Expected Output

```
enter the value a:10
enter the value b:5
enter the value c:3
no roots
```