Quadratic equations are of the form

*a* · *x*2 + *b* · *x* + *c* = 0

To solve these, one uses the quadratic formula:

Image

There is a problem, though: if *b*2–4*ac* is less than zero, then it will fail. Write a program that can calculate *x* for a quadratic equation. Create a function that prints out the roots of a quadratic equation, given *a*, *b*, *c*. When the program detects an equation with no real roots, have it print out a message. How do you know that your results are plausible? Can you check that they are correct?