```
def equation(x):
    return x^{**2} - 4 # Replace with your unique equation
def bisection_method(a, b, tolerance, max_iterations):
   iteration = 0
   while (b - a) / 2 > tolerance and iteration < max_iterations:
        c = (a + b) / 2
       if equation(c) == 0:
           break
        elif equation(c) * equation(a) < 0:</pre>
           b = c
        else:
           a = c
        iteration += 1
    return c
# Example usage:
a = 0
b = 3
tolerance = 0.0001
max_iterations = 100
result = bisection_method(a, b, tolerance, max_iterations)
print("Root:", result)
```