Problems

1. When I was inputting the coefficients of the formula I initially did it three times in the code which was included in the parts of comparing the discriminant. This makes my code redundant. So, I separated this part of the code from the discriminant parts and successfully made my code shorter and clearer.

2. The other problem I encountered in the coefficient part was that coefficients like 0,1,-1 have to be printed differently. And I kept on forgetting to modify these parts of the code. I was able to solve the problem by kept inputting numbers to test if the final result was correct.

Steps

1. Inputting coefficients and calculating the roots

2. Examine the coefficient to check if they are 0, 1, -1. If so, modify the form of the equation.

3. Categorize the roots by discriminants